

KV-E2521D/E2921D

RM-817

SERVICE MANUAL

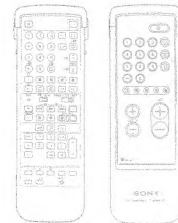
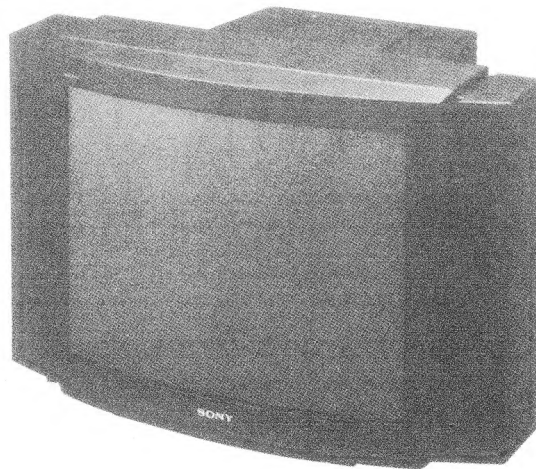
AEP Model

KV-E2521D

Chassis No. SCC-E18A-A

KV-E2921D

Chassis No. SCC-E18B-A



AE-1C CHASSIS

MODELS OF THE SAME SERIES

KV-E2521D/E2921D	

SPECIFICATIONS

【KV-E2521D/E2921D】

Television system B/G/H
 Color system PAL, SECAM, NTSC3.58, NTSC4.43
 Stereo system GERMAN stereo
 Channel coverage VHF: E2-E12 UHF: E21-E69
 CABLE TV : S1-S41
 Picture tube Black Trinitron tube
 Approx. 63.5 cm (25 inches)
 (Approx. 59 cm picture measured diagonally)
 110° -degree deflection
 Approx. 72.4 cm (29 inches)
 (Approx. 68 cm picture measured diagonally)
 110° -degree deflection
 Inputs Ⓒ- 1 21-pin connector:
 CENELEC standard including RGB input.
 Ⓒ+ 2 21-pin connector:
 including S video input
 Ⓒ- 3 Audio and video input jacks: phono jack.
 Y: 1Vp-p ± 3dB 75ohm
 C: 0.3Vp-p ± 3dB 75ohm
 Outputs 21-pin connector: CENELEC standard
 Headphones jack: stereo minijack
 External speaker terminals: 2-pin DIN
 Audio output jacks: phono jack (output
 dependent upon TV settings)

Sound output 30 W + 30 W
 Power consumption 100 Wh (KV-E2521D)
 114 Wh (KV-E2921D)
 Dimensions incl. speakers Approx. 757x493x468 mm (w/h/d)
 (KV-E2521D)
 Approx. 838x554x517 mm (w/h/d)
 (KV-E2921D)
 Weight incl. speakers Approx. 41.0kg (KV-E2521D)
 Approx. 55.0kg (KV-E2921D)

【RM-817】

Remote control system infrared control
 Power requirements 3V dc
 2 batteries IEC designation
 R6 (size AA)
 Dimensions Approx. 75×221×23mm(w/h/d)
 Weight Approx. 194g including batters
 Accessories supplied IEC designation R6 Commander

Supplied accessories RM-817 Remote Commander (1)
 IEC designation R6 batteries (2)

Design and specifications are subject to change without notice.

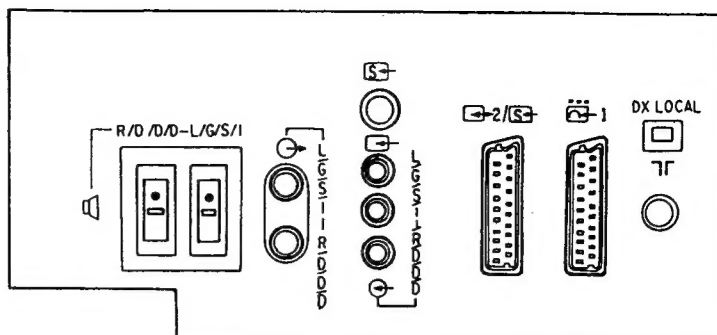
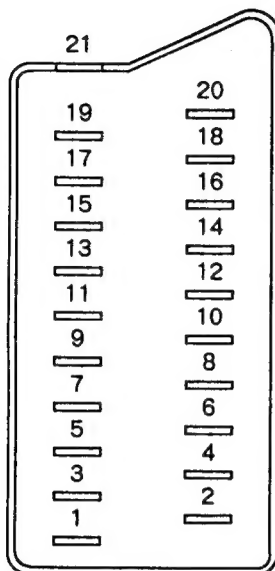


MICROFILM

TRINITRON® COLOR TV

SONY®

21 pin connector (1, 2)



Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
2	○	○	Audio Input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
3	○	○	Audio output A (left)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
7	○	●	Blue input	0.7V±3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5-12 V): Part mode Low state (0-2 V): TV mode Input impedance: More than 10kohms Input capacitance: Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal: 0.7V±3dB, 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	-	Red input	0.7V±3dB, 75ohms, positive
	-	○	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1-3 V) Low state (0-0.4 V) Input impedance: 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video Input)	
19	○	○	Video output	1V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
20	○	-	Video input	1 V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
	-	○	Video Input/Y (S signal)	1 V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
21	○	○	Common ground (plug, shield)	

○ connected ● unconnected (open)

* at 20 Hz-20 kHz


4 pin connector (1, 2)

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V±3dB 75ohm, positive Sync 0.3V $^{-3}_{+10}$ dB
4	C (S signal) input	0.3V± 3dB 75ohm positive

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
1. GENERAL			4. CIRCUIT ADJUSTMENT		
	TV Channel Presetting	4	4-1.	A Board Adjustments	20
	Basic Functions	6	4-2.	B1 Board Adjustments	20
	Special Functions	6	4-3.	D Board Adjustments	22
	Use of the Teletext Service	7	4-4.	J1 Board Adjustments	22
	Connections and Optional Functions	9	4-5.	V Board Adjustments	23
	Use of the Programmable Remote Control Unit	10	4-6.	Secondary Adjustments	23
	General Information	11			
2. DISASSEMBLY			5. DIAGRAMS		
			5-1.	Block Diagram	25
2-1.	Rear Cover Removal	13	5-2.	Circuit Boards Location	31
2-2.	Chassis Assembly Removal	13	5-3.	Schematic Diagrams and Printed Wiring Boards	31
2-3.	A and J1 Boards Removal	13	5-4.	Semiconductors	61
2-4.	B1 and V Boards Removal	14			
2-5.	Service Position	14	6. EXPLODED VIEWS		
2-6.	Picture Tube Removal	15	6-1.	Chassis	63
3. SET-UP ADJUSTMENT			6-2.	Picture Tube	64
			6-3.	Speaker	65
3-1.	Beam Landing	16	7. ELECTRICAL PARTS LIST		66
3-2.	Convergence	17			
3-3.	Focus	19			
3-4.	White Balance	19			

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK
 ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

SECTION 1 GENERAL

Note) The layout, etc., will be slightly different from the operating instructions packed with the units.








TV channel presetting

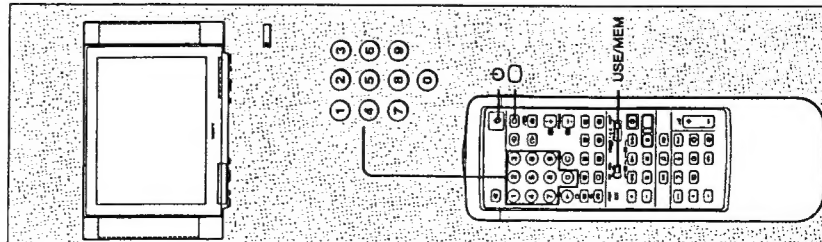
After installing the TV set, TV channels must be preset.

TV broadcasting stations broadcast their programmes on certain fixed frequencies (channels). In order to receive these programmes it is necessary to search for the relevant broadcasting station and to set record it as a channel. The "programme number" is the number that the user decides to associate with a certain channel.

For channel settings there are 60 positions available in the memory. In this way all stations broadcasting within the user's country can be received and recorded as a channel.

Turning the TV unit ON and OFF



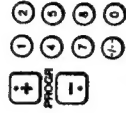








Operation	Result
1 Press  on the TV set.	The TV set will come on. Note: If no picture appears on the screen, the TV set is in the stand-by mode. In this case follow instructions given in step 2.
2 Press  or one of the selection numbers of the remote control unit. 	A programme number appears on the screen. 
Temporarily turning off the TV set: Press  on the remote control unit.	The TV set will enter the stand-by mode. It can be turned on again by pressing the  button, or the selection button of the remote control unit.
Turning off the TV set definitely: Press  on the TV set.	The TV set will be turned off.



NOTE
When the "complete" side of the remote control unit is used, check that the USE/MEM selector is in the USE position.

TV channels automatic presetting

If the numbers to be associated with certain TV channels are already known, the following explanation can be skipped. In this case go directly to the section "TV channels direct selection".

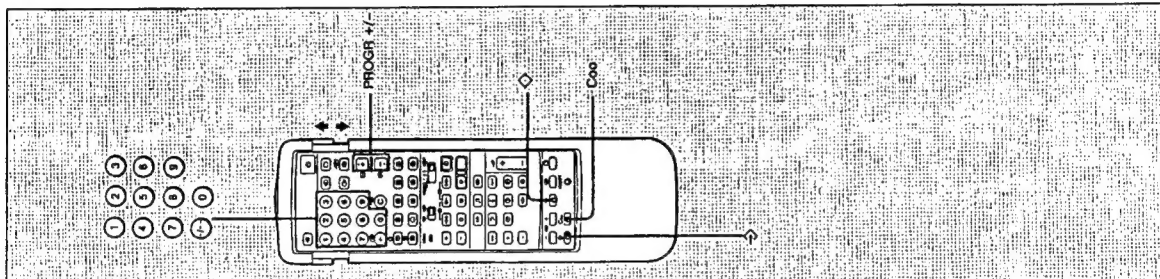
Operation	Result
1 Press  to begin the preselection.	The programme number flashes. 
2 Press PROG + /- buttons of the remote control unit to select the channel number of the broadcasting station you want to memorize.  NOTE: To select a 2-figure number press the /- button. E.g., if you wish to select number 23, press /- first, and then 2 and 3.	The programme number on the screen changes. NOTE: In case of a mistake, the "X" letter appears. Repeat once more the operation of step 2. 
3 To search for broadcasting stations press  +  and  buttons.	When a broadcasting station is tuned correctly, the search will stop. If you want to skip it, press  + or - again. 
4 Press  to memorize the channel to that the broadcasting station is tuned.	All data visualized under the channel number disappears from the screen. 
5 To memorize other broadcasting stations repeat steps from 1 to 4.	

Direct TV channel setting

Direct presetting of TV channels is faster than automatic presetting. With this function any broadcasting station can be searched for and set as the desired channel.

Operation	Result
1 Press → to begin the presetting.	The programme number begins to flash on the screen.
2 Press the PROG + / - buttons of the remote control unit to select the channel number under which you want to set the broadcasting station. Note To select a 2-figure number press - / - button. E.g., if you wish to select number 23, press - / - first, and then 2 and 3.	The programme number on the screen changes. Note In case of mistake, the "X" letter appears on the screen. Repeat once more the operation of step 2.
3 Press C. If you wish to select a cable station press C twice.	Indication "C-" ("S-" for cable stations) flashes on the screen.
4 By using the number buttons of the remote control unit select the channel number, always with two figures (for "4" press "04"). Note: Press the second figures within 5 seconds from the first. After 5 seconds the operation is canceled.	The channel number changes on the screen.
5 Press → to memorize the channel to which the station is tuned.	All indications, except the programme number, disappear from the screen.

To memorize other broadcasting stations repeat the above procedure.



Exclusion of programmes

Once all desired stations have been memorized, unoccupied channel numbers, with stations of inferior quality signals can be excluded. The undesired channels can be excluded by using the PROG + and - buttons.

Operation	Result
1 Press → to begin presetting.	The programme number begins to flash on the screen.
2 By acting on the PROG + and - buttons, or on the number keys of the remote control unit, select the programme number you wish to exclude. 	The programme number changes.
3 Press Coo.	Under the programme number, the preceding channel number appears.
4 Press ◇.	All indications under the programme number disappear from the screen. The excluded programme number will be memorized.

Note/Note

Undesired channels can be excluded only by using PROG + and - keys. Excluded programme numbers appear on the screen if you press the number keys of the remote control unit.

Use of additional tuning functions

Temporary channel tuning

It is possible to temporarily memorize a channel, even if it has not been preset.

Operation	Result
1 Press C. Press C twice for a cable station.	"C" ("S" for cable stations) indication appears on the screen.
2 Using the number keys of the remote control unit select the channel number, always with two figures (e.g., "04" for channel "4").	The channel will be received, but it will not be set as a programme number.

Basic functions

This section of the manual explains the use of the two fundamental functions of the TV set, selection of TV programmes and volume control.

Use the "simple" side of the remote control unit.

Programme selection

Before selecting programmes make sure that TV channels have been memorized.

Operation	Result
1 Turn the TV set on.	
2 Press PROG + or - buttons or the number keys of the remote control unit. To select a 2-figure number press +/- button. E.g., if you wish to select number 23, press +/- first, and then 2 and 3.	

Volume control

Operation	Result
Press Δ + or -.	

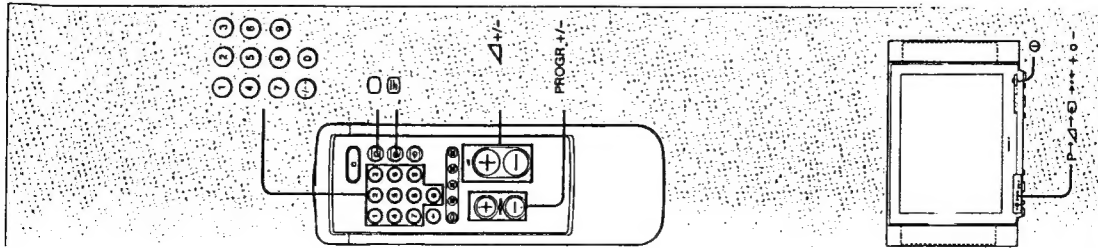
Use of additional functions

Use of other functions with the TV set buttons

It is also possible to select programmes and to adjust the volume by using P \rightarrow Δ \rightarrow \odot and \rightarrow \odot + or - buttons, located on the front panel of the TV set. In this case, press first P \rightarrow Δ \rightarrow \odot until the indication P (channel) or Δ (volume) appears on the screen, and then press \rightarrow \odot + or - buttons.

Use of teletext service

Press \odot . To revert to the TV mode, press \odot . For further information on the teletext service see pag. 8.



Special functions

This section explains the use of functions for adjusting pictures and sound; for inserting on the screen the name of a channel; and for fine tuning of a channel.

Use the "complete" side of the remote control unit.

Use of special functions

The following functions can be used.

Function	Operation	Result
Indication display	Press \odot	Press \odot again.
Sound muting	Press M	Press M again.
Language selection for bilingual programmes.	Press A/B. The selected language is displayed by the relevant indication on the screen.	Press A/B.
Sound adjustment for music programmes.	Press M	Press M again.
Use of special sound effects.	Press SE	Press SE again.
Time display (only during teletext broadcasting).	Press TD	Press again.

Picture and sound adjustment

Although picture and sound adjustment has already been performed in the factory, it is still possible to make them more suitable to one's own taste. The following table shows all available functions and their effects.

Operation

Function	Controls to be used	Result
Button selection	\odot \odot \odot \odot \odot	The symbol appears on the screen.
Adjustment of the selected function	\odot \odot	The level has been adjusted.

Picture adjustment

Adjustment	Symbol	Result (+ \leftrightarrow -)
Colour	\odot	Further or lesser colour intensity
Contrast	\odot	Further or lesser contrast
Brightness	\odot	Bright (\leftrightarrow) dark
Hue (for NTSC only)	\odot	More red \leftrightarrow more green
Picture definition	\odot	More definition \leftrightarrow less definition

Sound adjustment

Adjustment	Symbol	Result (+ \leftrightarrow -)
Bass	\odot	More of low frequencies \leftrightarrow less of low frequencies
Treble	\odot	More of high frequencies \leftrightarrow less of high frequencies
Speakers balance	\odot	Volume increase from right speaker \leftrightarrow Volume increase from left speaker

Reversion to the original adjustment
Press \rightarrow \odot \leftarrow .

Use of the teletext service

Broadcasting station identification

By associating a name with a certain broadcasting station it is possible to avoid having to remember, each time, in which channel number that particular station has been memorized.

Five different characters are available for station identification.

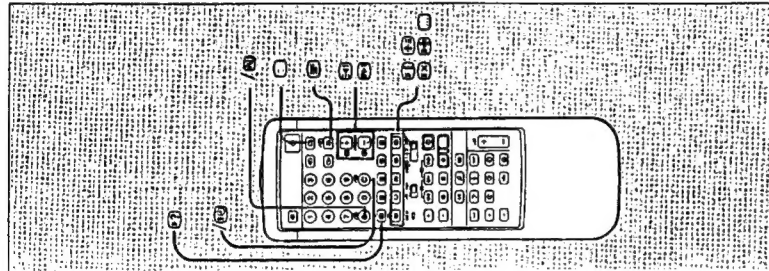
Operation	Result
1 By using PROGR + or - or the number keys of the remote control unit, select the programme number to be set for identification.	
2 Press →	
3 Press □	
4 Using the (F) + or - buttons select a letter of the alphabet, a number, or a blank space.	
5 Press □	
6 Repeat steps 4 and 5, and fill all five available spaces.	
7 Press ◊.	

Manual fine tuning

If the picture is not perfect, it is possible to fine tune it manually.

Operation	Result
Press (F) + or - repeatedly until the picture is at the optimum.	The indication →F← appears on the screen.
Press → to start preselection.	The programme number starts flashing on the screen.
Press ◊.	Manual fine tuning has been memorized.

Note: Manual fine tuning will be reset when the channel is selected again.








How to display teletext service

Operation	Result
1 Select the channel you want to watch.	The channel changes on the screen.
2 Press (I)	
3 Use the number keys of the remote control unit to insert the three figures corresponding to the desired teletext page.	The selected page number appears on the screen. After a few seconds, the selected page appears on the screen.
Note In case of a mistake, press any three numbers, and then repeat the operation with the correct numbers.	
To revert to normal TV programmes: Press □.	
To change teletext channel: First press □ to revert to the TV mode, and then repeat procedure steps 1 to 3.	

Note: A weak TV signal may cause troubles in the use of teletext.

Use of special teletext functions

Required function	Operation	Result (on the screen)
Page index required.	Press (I) (INDEX).	
Sub-pages required (page 888).	Press □	The sub-page appears (page 888).
Access to previous or following pages.	Press (P) (PAGE +) or (M) (PAGE -).	

Required function	Operation	Result (on the screen)
Superimposition of the teletext on the TV programme.	In the TV mode, press ⏏ twice. To revert to the normal teletext function press ⏏ again.	 Teletext information will appear superimposed on the TV programme.
To prevent page changes due to page up-dating.	Press ⏏ (STILL). Press ⏏ (TXT/MIX) to revert to the normal function.	 The ⏏ (STILL) symbol appears on the screen.
Magnification of teletext characters.	Press once to magnify the upper half of the screen. Press twice to magnify the lower half of the screen. Pressing the button three times the normal vision is restored.	 The upper or the lower half of the page is magnified.
Display of hidden information (answers to quizzes, ecc.).	Press ⏏ (HIV). Press again to hide the answers.	 The information is displayed.
Watching a programme while the teletext searches for the required page.	1. Ask again for the page.	The number is displayed.
	2. Press ⏏	TV programme is displayed.
	3. When the required page has been found, the page number will be displayed.	
Display of a page at a preset time.	4. Press ⏏ to display the page.	The desired page will be displayed.
	1. Request the page.	The selected page will be displayed.
	2. Press ⏏ (MEM.T).	In the lower part of the screen the indication "T****" appears.
	3. Set the required time by using the number keys, and by inputting four figures (e.g. 0730 for "7:30").	The required time is displayed on the screen.
To watch TV programmes until a preset time Press ⏏ (CANC.). At the required time, the selected page appears in the upper part of the screen. Press ⏏ to display the page.	To cancel the request Display the teletext page and then press ⏏ (CANC.M.).	

Note: Depending on the teletext service, certain functions may not be available.

Use of the FASTEXT function

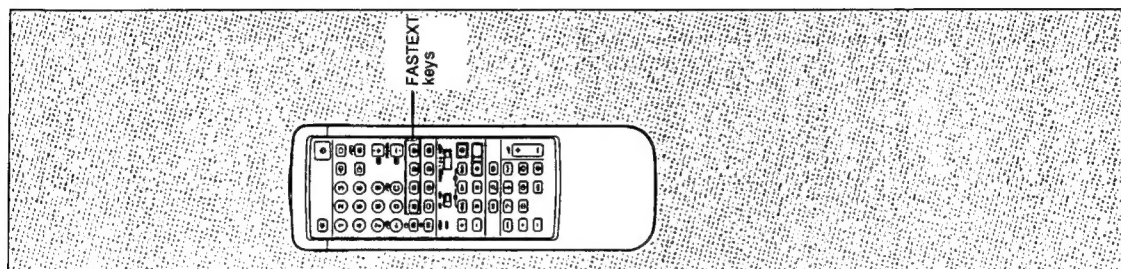
The FASTEXT function allows rapid access, at the touch of a single button, to the teletext functions. In the lower part of the screen, a colour coded index will be displayed when a FASTEXT teletext page is broadcasted. Each colour corresponds to the coloured keys on the remote control unit.

Operation

Operation	Result
Press one of the coloured key on the remote control unit corresponding to the coloured indications of the FASTEXT teletext page.	The selected teletext page appears on the screen.

Note

The correct use of the FASTEXT teletext function depends on the signal being broadcast by the TV stations. Some TV stations may not broadcast FASTEXT teletext signal.



Connections and optional functions

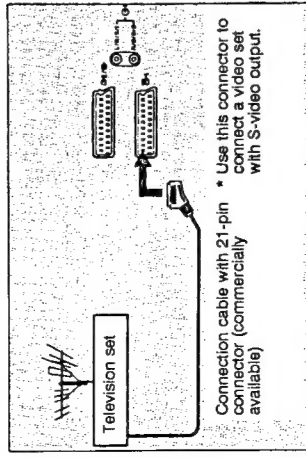
This TV set may be connected to other audio/video machines, such as videocameras, VTRs, videodisc players, or stereo systems.

Connection to an external audio/video system

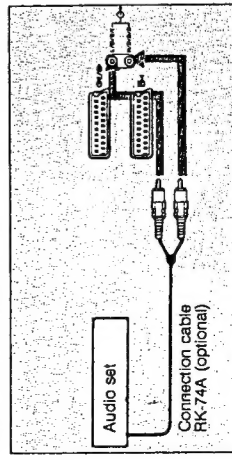
This TV set incorporates three groups of connectors, for input and output to the TV signal. Each group has the following characteristics.

Connector	Input signal	Output signal
1	Normal audio/video signal or RGB signal	TV tuner audio/video signal
2	Normal audio/video signal and S-video signal	Audio/video signal from a selectable source
3	Normal audio/video signal and S-video signal	No signal

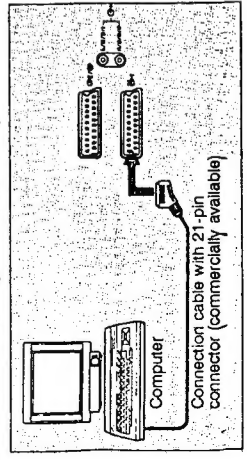
Connection of a TV set



Connection of an audio unit

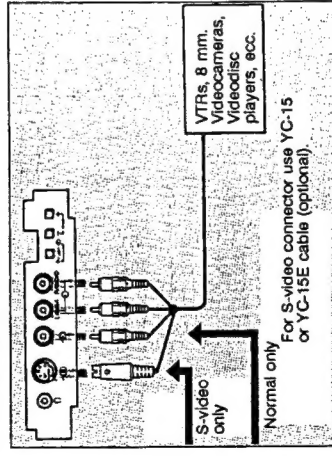


Connection to a computer with RGB output



Temporary connection of video apparatus

For a temporary connection (e.g. of a videocamera) use the front panel terminals.



Connection of a video taperecorder through the T connector

Connect the antenna input (AERIAL-IN) of the TV set to the antenna output (AERIAL-OUT) of the video taperecorder.

S-video input (Y/C input)

The video signal is formed by two separate signals: the luminance (Y) and the chrominance (C). Through the separation of the two signals it is possible to improve picture quality (luminance in particular), preventing reciprocal interferences. This TV set features two S-video sockets able to directly receive this type of signal.

Pictures with distortion

Move the TV set away from the video taperecorder if pictures or sound become distorted.

Video programme playback

Using the input selector, pictures coming from a video taperecorder connected to the TV sets input, may be played back.

Operation

Operation	Result
Select the desired video input by pressing 1	The symbol of the selected input appears on the screen (see table hereunder).
Press 0 button to revert to TV mode.	

Selectable inputs

Symbol	Selected input
1	Audio/video signal from 1 connector.
2	RGB signal from 1 connector.
2	Audio/video signal from 2/2 connector.
2	S-video signal (from a VTR with S-video output) from 2/2 connector.
3	Audio/video signal from 3, -3 connector located on the front panel.
3	S-video signal from S-video -3 (4 pin) connector located on the front panel.
Input can be selected also with P-1-2 buttons of the TV set.	
In this case, first select 3, and then press the + / - buttons to select the desired input.	

Selection of video output from a 2/2 connector

The 2/2 connector may output 4 video signals. Select the outgoing video signal in the following way.

Operation

Operation	Result
Press 2 repeatedly to select the desired video input.	The selected video input symbol appears on the screen (see the table following).

Output signal

Symbol	Selected output
1	Audio/video signal from 1 connector.
2	Audio/video signal from 2/2 connector.
3	Audio/video signal from 3 and -3 connectors.
TV	Audio/video signal from T-type antenna connector T.

Use of the programmable remote control unit

This section explains the use of the remote control unit (supplied) for other audio/video apparatus.

The supplied remote control unit allows you to control Sony video units from a distance. The same remote control unit may be programmed to execute the same function also with other makers set.

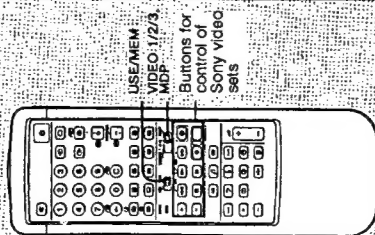
Remote control on Sony video sets, without programming the supplied remote control unit

Through the VIDEO 1/2/3, MDP selector button, video apparatus made by Sony (such as Betamax VTRs, 8 mm. VTRs, VHS VTRs and videodisc players) may be controlled from a distance.

1	Select position USE	USE MEM
2	With the VIDEO 1/2/3MDP selector button select the position corresponding to the Sony set you wish to control. Positions are as follows: VIDEO 1: Sony Betamax, or Betamax ED VTRs VIDEO 2: Sony 8 mm. VTRs VIDEO 3: Sony VHS VTRs MDP: Sony videodisc players	VIDEO 1-2-3 MDP
3	For remote control of video sets use buttons shown in the illustration.	

Note

- If the VTR is being used has a COMMAND MODE selector, it is necessary to select, with this selector, the same position of the VIDEO 1/2/3, MDP selector of the supplied remote control unit.
- Buttons of the remote control unit correspond to functions not available on the VTR, cannot be activated.



Storing signals of other remote control units

Buttons shown in the following illustration may memorize the corresponding functions of other remote control unit.

Up to four functions may be memorized, by associating them with the VIDEO 1/2/3, MDP selector button, to only one button of the remote control unit supplied with the TV set.

1	Select the desired position with the VIDEO 1/2/3, MDP selector button.	VIDEO 1-2-3 MDP
2	Select the position MEM with the mode selector.	USE MEM
3	Put the remote control unit of the other set in front of the supplied remote control unit. about 5 cm	
4	On the supplied remote control unit press the button corresponding to the function which has to be memorized. The MEM indication lights up.	MEM
5	Note When the ● button is used, be sure to press it simultaneously with the button on the right side. Press on the remote control unit the button corresponding to the function which has to be memorized. At the end of the memorization process the MEM indication goes off.	MEM
6	To memorize other functions repeat steps 3 to 5 of this procedure.	
7	At the end of the procedure, select position USE for the supplied remote control unit.	USE MEM

For efficient operation the two remote control units shall be positioned in the following way:

- one in front of the other,
- at an approximate distance of about 5 cm
- completely still during the memorizing operation.

After programming

Check that the video set exactly follows the memorized commands.

In case of incomplete memorization

The MEM indicator will flash. Repeat the procedure starting from step 3.





Insertion of a new command in an already memorized button

The previously memorized function will be replaced automatically.

Note on programming

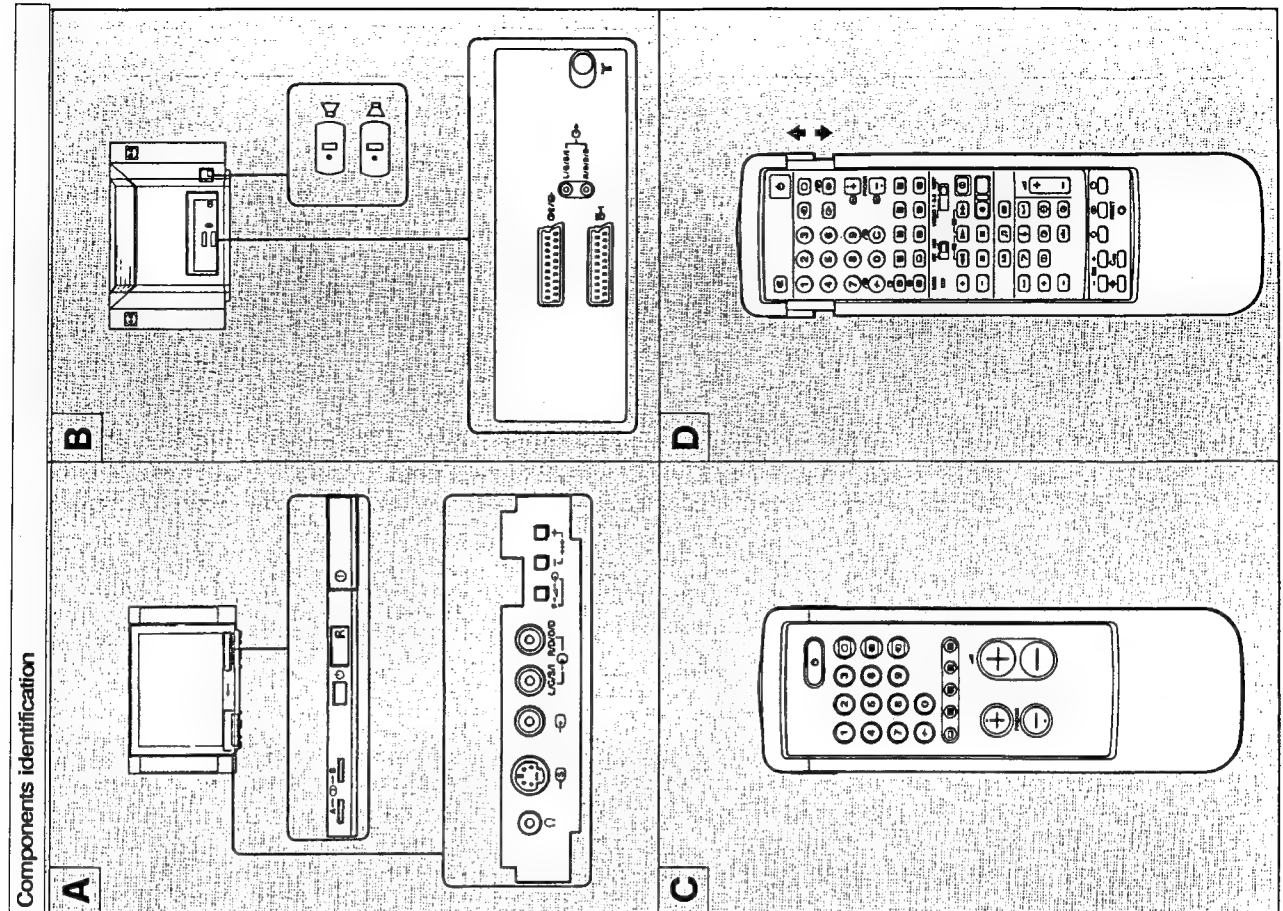
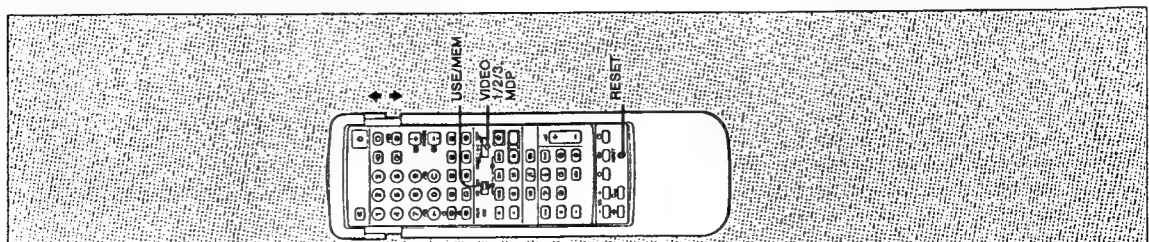
Functions of non-Sony remote control units can be memorized only if these units make use of infrared signals. It may happen that certain particular functions of non-Sony remote control units cannot be memorized.

General information

Cancel of programmed functions		
1	With the VIDEO 1/2/3, MDP selector, select the position corresponding to the functions that have to be cancelled.	
2	Select MEM position on the mode selector.	
3	Press the RESET button with the point of a pen, or similar.	
4	Once the cancel process has been performed, select the USE position on the mode selector.	

Note

- Instructions memorized in one single button cannot be cancelled.
- After the programmed functions have been cancelled, functions for controlling Sony video apparatus are still available.



This section briefly describes controls of the TV set and the remote control unit, and their relevant functions. For further details see the page shown on the right side of each description.

A TV set front panel	
Indication	Description
	Power switch
	Stand-by switch
A-O-B	Bilingual function indications
	Headphones connector (stereo mini-jack)
	Input connectors (S-video/video/audio)
	Function selector (programme/volume/input)
	Function adjustment keys

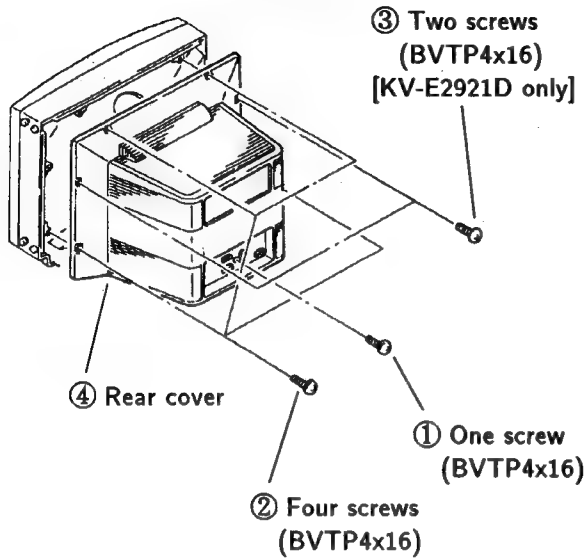
B TV set rear panel	
Indication	Description
	Speaker connectors (upper: left speaker; lower: right speaker)
	Connector 2, Euro AV (SCART, 21-pin). S-video in/video in/TV/video out signals.
	Connector 1, Euro AV (SCART, 21-pin). RGB in/video in/TV/out signals.
	Audio output connectors (RCA pin)
	Antenna connector (of IEC standard)

C Remote control unit — simplified side	
Indication	Description
	Input selector
	Teletext service key
	TV set power switch and TV mode selector
	Standby key
1,2,3,4,5,6,7,8,9,0	Number keys
-/+	Channel selection key/2-figure programmes
	Volume adjustment key
PROGR +/-	Programme selection key

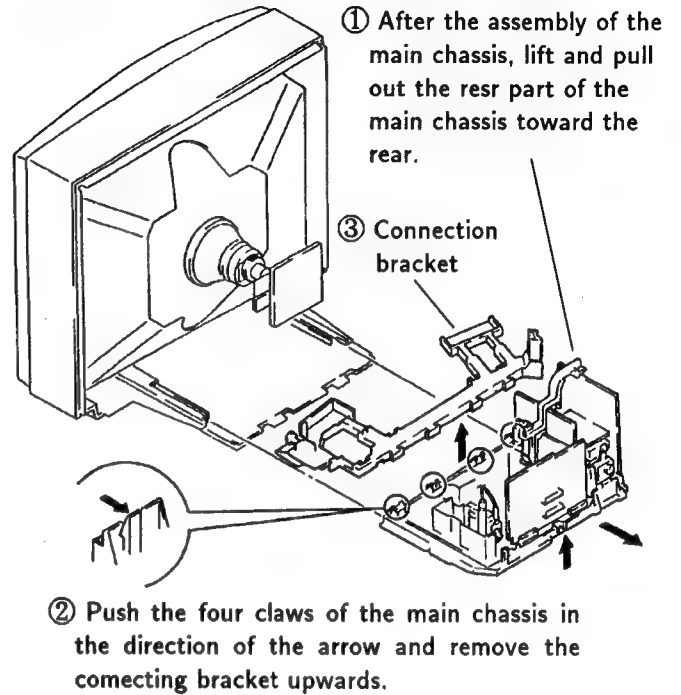
D Remote control unit — complete side	
Indication	Description
	Sound muting key
	Standby key
1,2,3,4,5,6,7,8,9,0	Number keys
	Input selector
	TV set power switch and TV mode selector
	Output selector
	Teletext key
	Music programme key
A/B	Bilingual programmes language selection
-/+	Channel selection key/2-figure programmes
C	Channel direct selection key
	Special sound effect key
	Time display
	Teletext operation keys
	Display key
	Reset key
	Volume adjustment keys
PROGR +/-	Programme selection keys
	Image and audio adjustment keys
MEM	MEM light indication
USE/MEM	Normal/programme mode selector
VIDEO 1/2/3, MDP	Video unit selector
	Video units function key
	Programme cancelling key
	Channel presetting key
	Channel tuning keys
	Channel storing keys
	Broadcasting stations identification key
RESET	Cancel key

SECTION 2 DISASSEMBLY

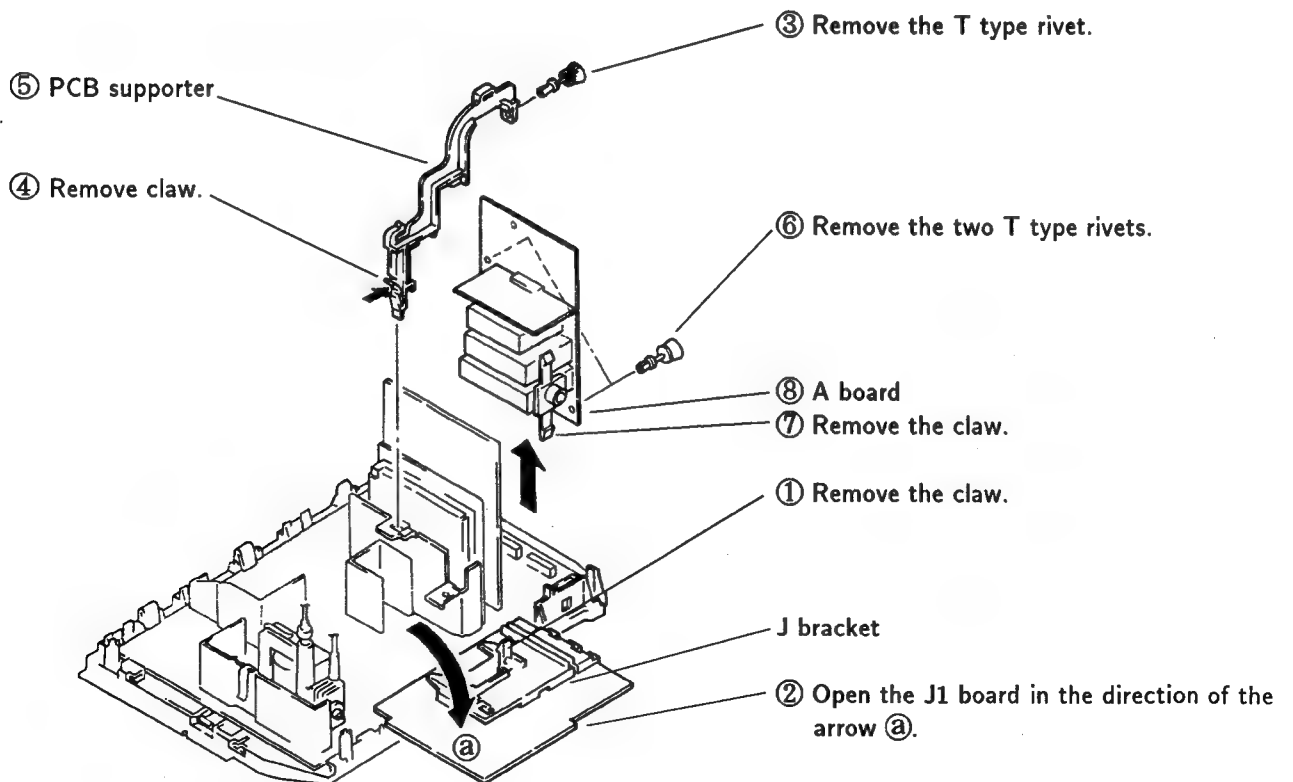
2-1. REAR COVER REMOVAL



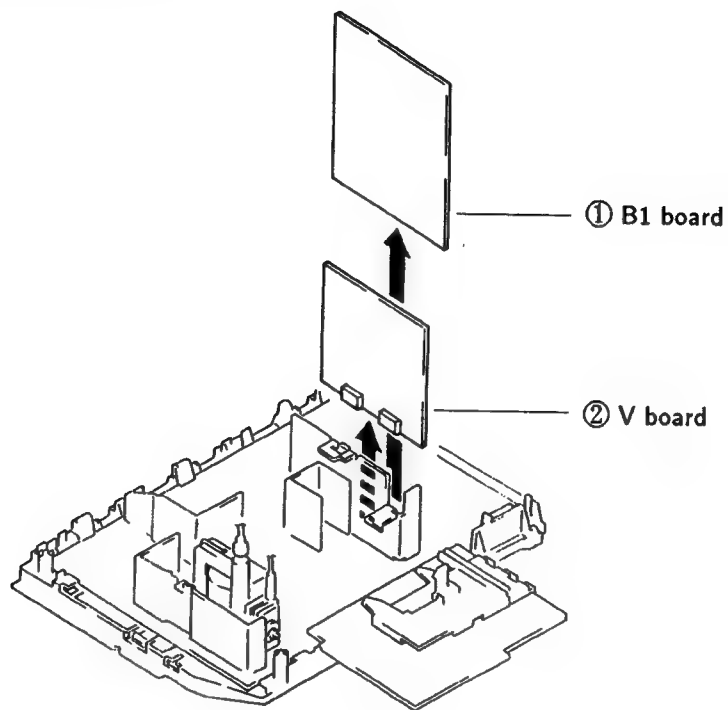
2-2. CHASSIS ASSEMBLY REMOVAL



2-3. A AND J1 BOARD REMOVAL

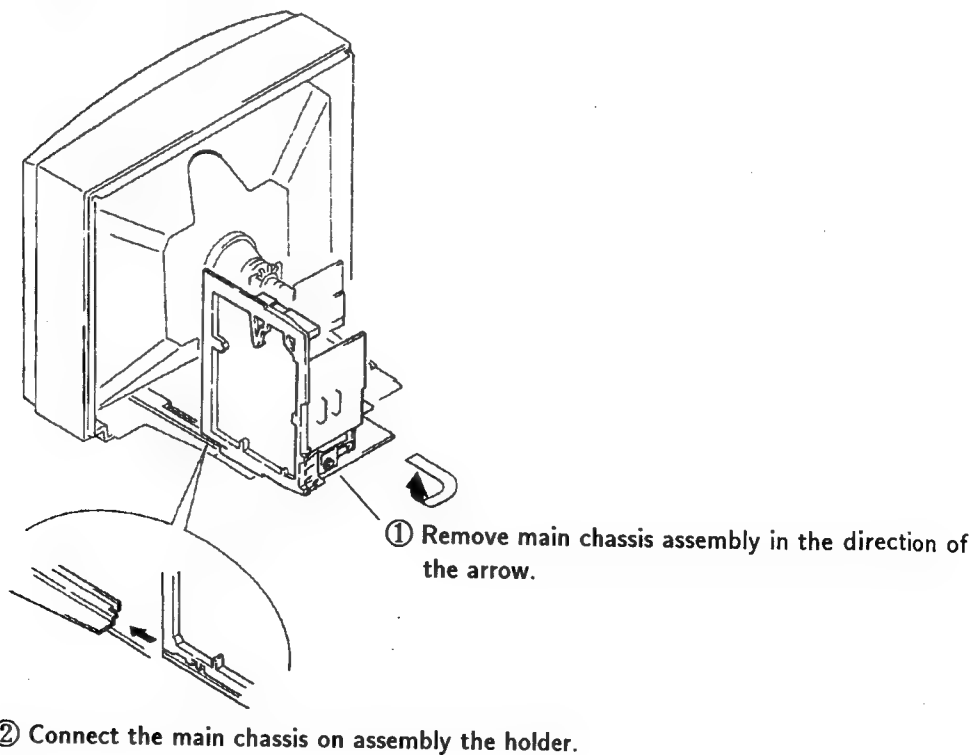


2-4. B1 AND V BOARDS REMOVAL

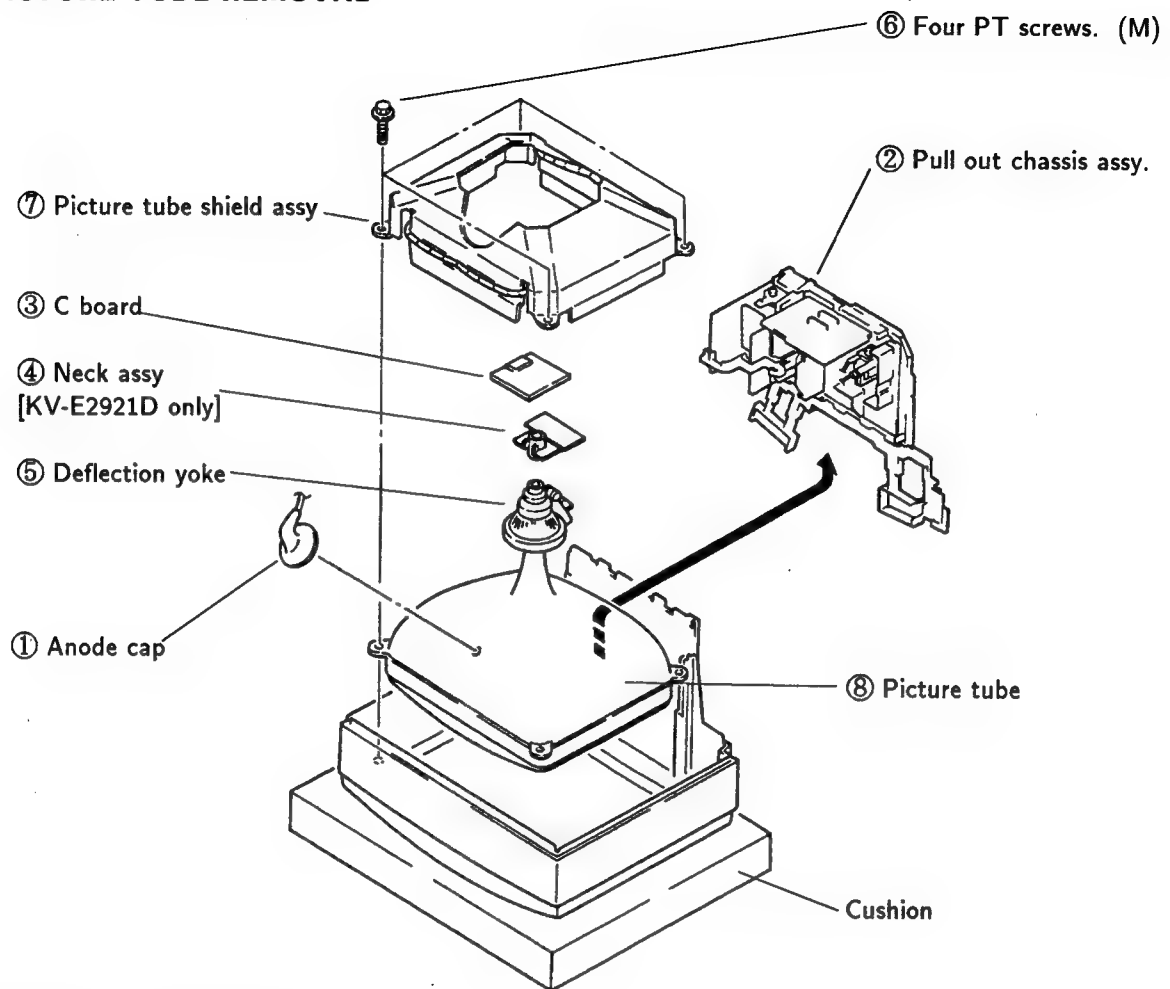


2-5. SERVICE POSITION

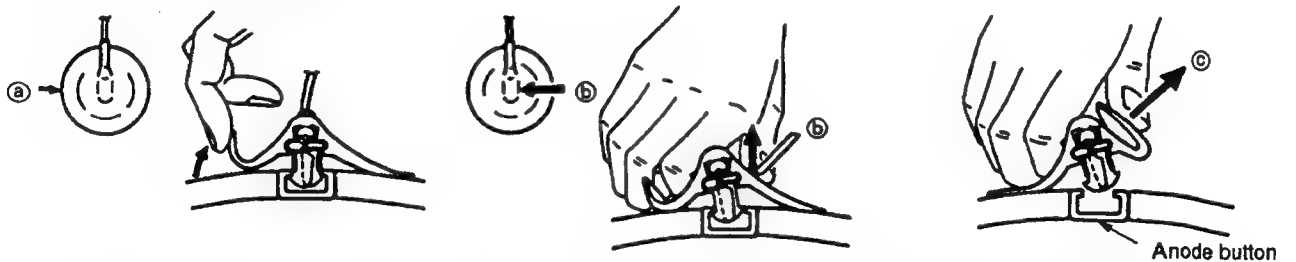
- * Remove the connector bracket from the main chassis assembly and then perform the following servicing.
(Refer to 2-2. CHASSIS ASSEMBLY REMOVAL.)



2-6. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP • REMOVING PROCEDURES

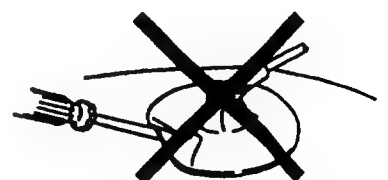


- ① Turn up one side of the rubber cap in the direction indicated by the arrow ②.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.

- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECITON 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :
 - Contrast80%
(or remote control normal)
 - ⚙ Brightness50%

- Carry out the following adjustments in this order:

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note : Testing equipment required

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
 Contrast } normal
 Brightness }
2. Position neck ass'y as shown in Fig 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
 (See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
 (See Figure 3-4.)

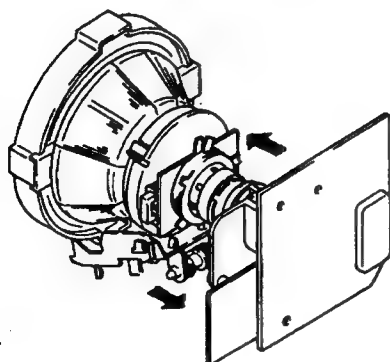


Fig. 3-1

Fig. 3-2

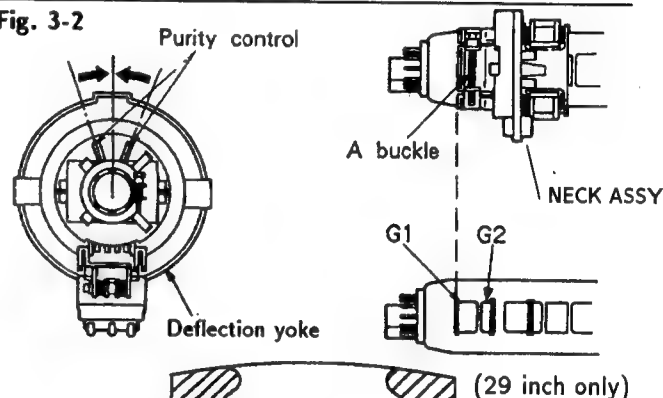


Fig. 3-3

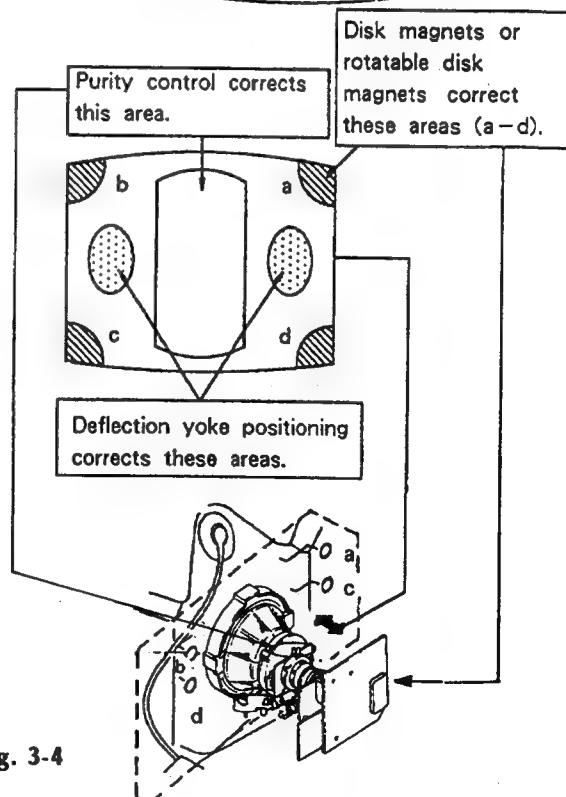
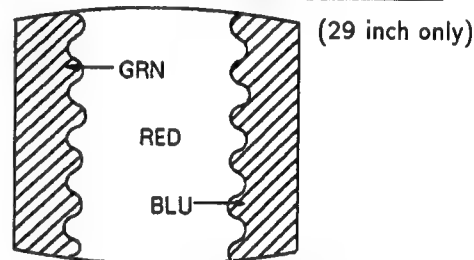


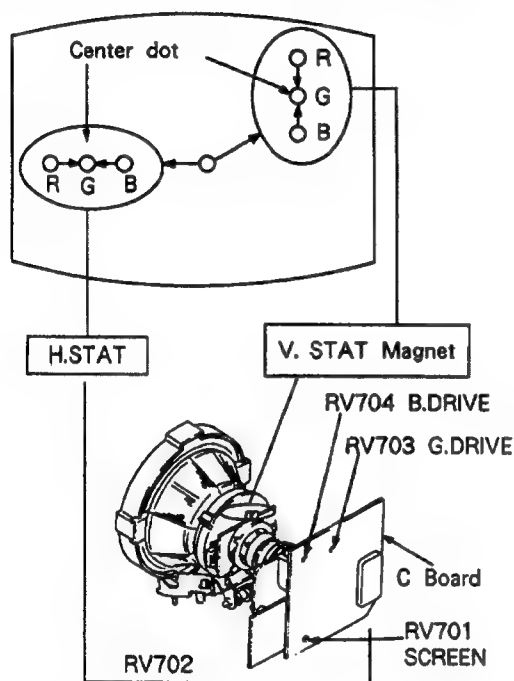
Fig. 3-4

3-2. CONVERGENCE

Preparations :

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

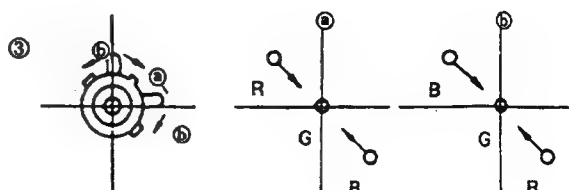
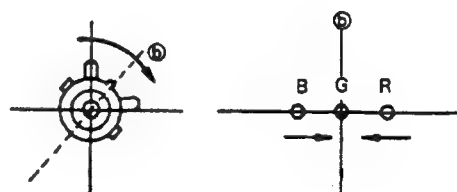
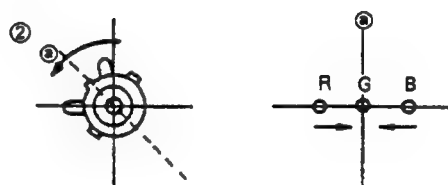
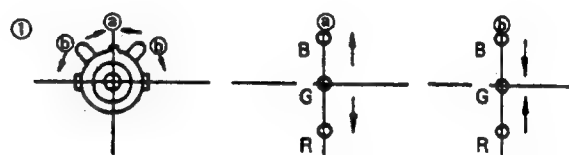


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below. (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

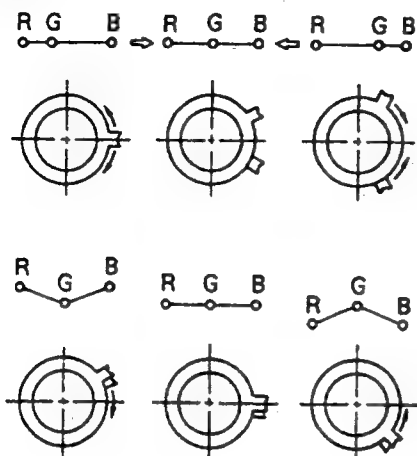
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



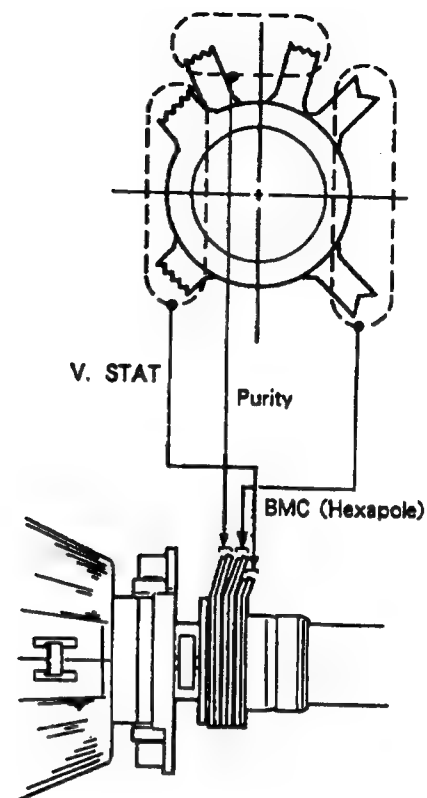
4. If the V.STAT magnet is moved in the direction of the ② and ③ arrows, the red, green, and blue points move as shown below.



● Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



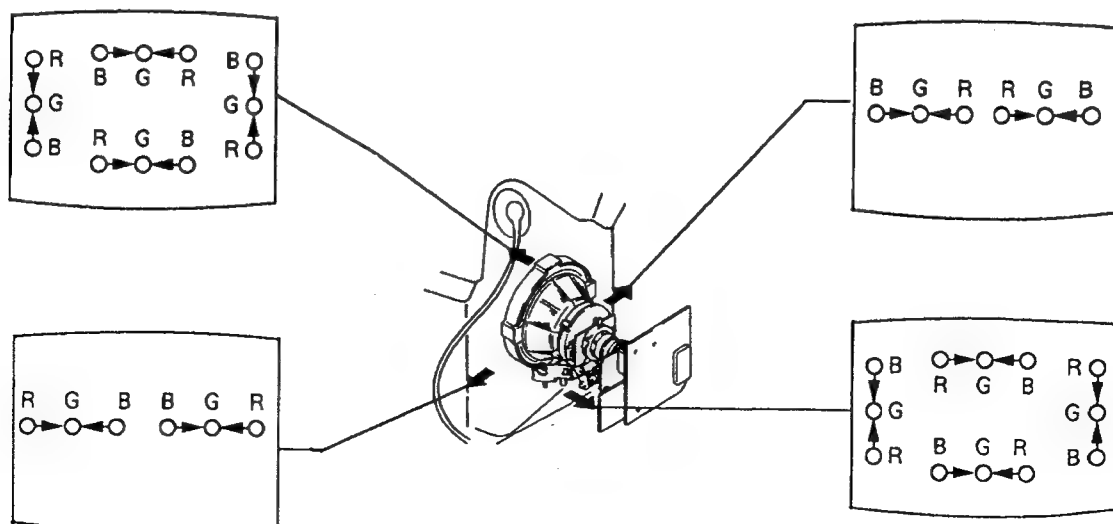
(2) Dynamic convergence adjustment

Preparations :

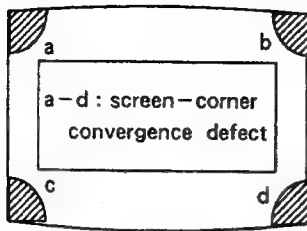
Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.

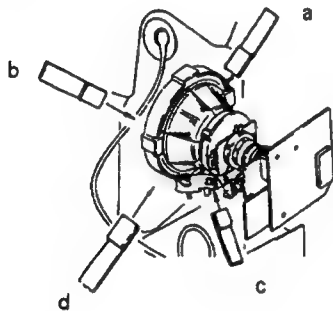
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



(3) Screen corner convergence



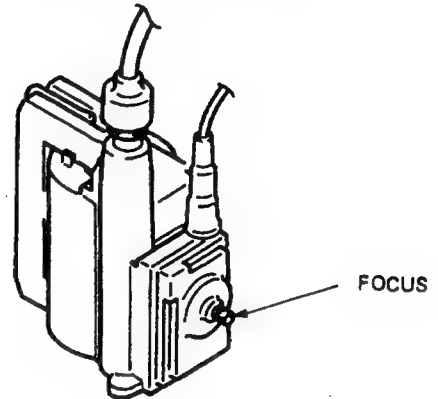
Install the permalloy assembly for the section with faulty.



Permalloy

3-3. FOCUS

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

[Screen G2 setting]

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

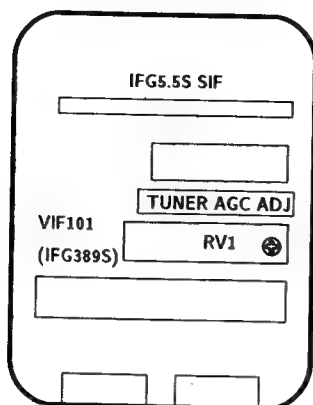
[White balance adjustment]

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS

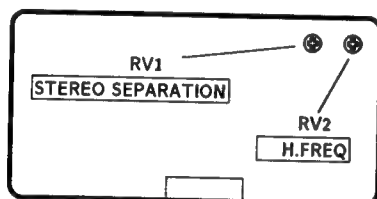


A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (VIF101, RV1)

1. Align with an appropriate signal between stations.
2. Adjust RV1 so that snow noise and cross modulation just disappear from the picture.

IFG5.5S SIF



IFG5.5S SIF -component side-

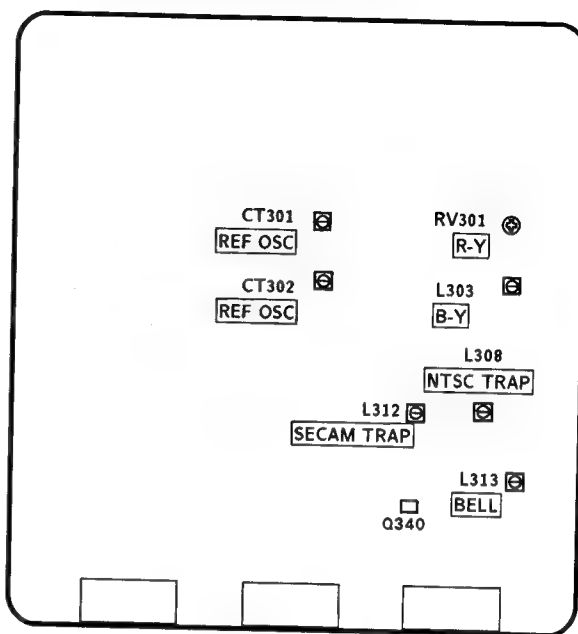
STEREO SEPARATION ADJUSTMENT (RV1)

1. Input a STEREO signals. (L-CH 400Hz, R-CH 1KHz)
2. Check the stereo indicator.
3. Connect on oscilloscope to pin⑧ (CH1) of CN1 through band pass filter of 1KHz
4. Adjust RV1 so that 1KHz voltage goes down to the minnum.

H FREQ (RV2)

1. Input a PAL color bar signal, then connect a jumper between pin⑫ IC4 and GND.
2. Connect a frequency counter to pin④ IFG5.5S (HP) of CN1 through a probe of 10 : 1.
3. Adjust RV2 (H.FREQ) $15.625 \pm 50\text{Hz}$.
4. After adjustment, remove the jumper.

4-2. B1 BOARD ADJUSTMENTS



B1 BOARD (COMPONENT SIDE)

REFERENCE OSCILLATOR ADJUSTMENT (CT302 8.8MHz)

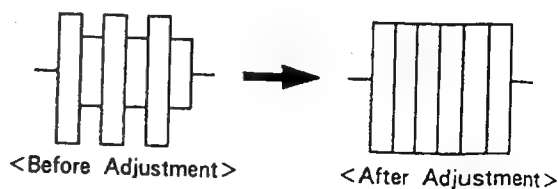
1. Input a PAL color bar signal.
2. Ground pin ⑩ of the IC304.
3. Adjust CT302 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT301 7.16MHz)

1. Input an NTSC color bar signal.
2. Ground pin ⑩ of IC304.
3. Adjust the CT301 to obtain synchronization.
4. Remove the jumper grounding pin ⑩ of IC304.

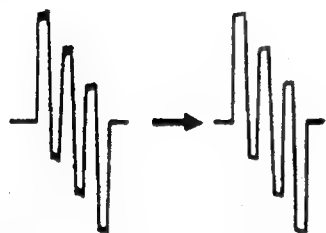
BELL FILTER ADJUSTMENT (L313)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q344.
3. Adjust L313 so that the waveform is flat.



1H DELAY LINE ADJUSTMENT (L303, RV301)

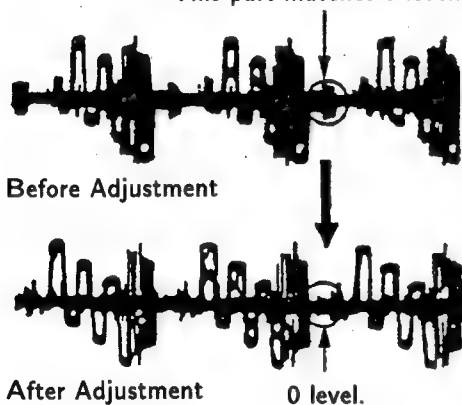
1. Input a PAL color bar signal.
2. Connect the oscilloscope to pin ③ (B-Y) of IC304 and observe the waveform of the H block on the oscilloscope.
3. Adjust L303 to minimize the double waveform outline.



Before Adjustment After Adjustment

4. Input a PAL test color bar signal.
5. Rotate the RV301 and adjust till the ANTI-PAL part of the waveform matches the 0 level.

This part matches 0 level.

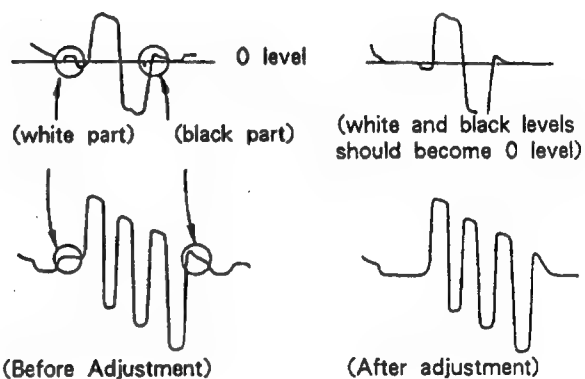


After Adjustment 0 level.

6. L303 and RV301 affect each other, Repeat till the conditions of both met.

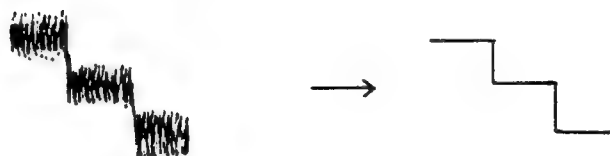
DISCRIMINATION ADJUSTMENT (RV301 and L303)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to pin ① of IC304.
3. Adjust RV301 until the white and black sections of the waveform at pin ① are at the 0 level.
4. Connect the oscilloscope to pin ③ of IC304.
5. Adjust L303 until the white and black sections of the waveform at pin ③ are at the 0 level.



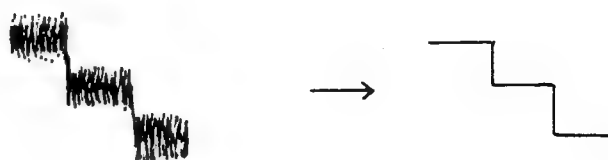
SECAM TRAP (L312)

1. Input a SECAM color bar signal.
2. Connect oscilloscope to Q340 emitter and adjust L312 to minimize color carrier on the Y-signal.

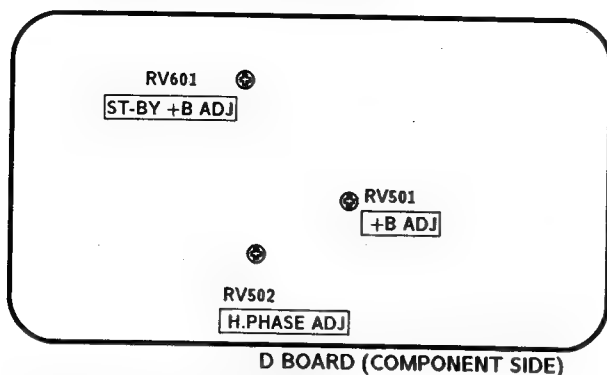


NTSC TRAP (L308)

1. Input a NTSC (3.58) color bar signal.
2. Connect oscilloscope to Q340 emitter and adjust L308 to minimize color carrier on the Y-signal.



4-3. D BOARD ADJUSTMENTS



+B ADJUSTMENT (RV501)

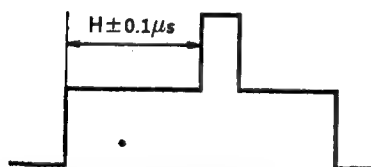
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain $135 \pm 0.2V$.

ST-BY +B ADJUSTMENT (RV601)

1. Put the system into ⏻ standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain $135 \pm 3V$.
4. Take the system out of ⏻ standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

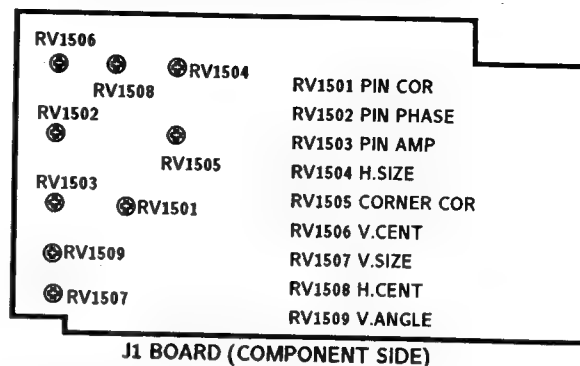
1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to $H \pm 0.1\mu s$.



Standard of H. PHASE

Model Size	H
25 "	$5.1\mu s$
29 "	$5.5\mu s$

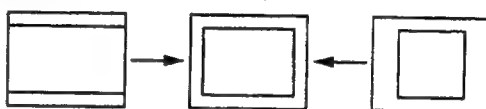
4-4. J1 BOARD ADJUSTMENTS



RV1508 H. CENT (HORIZONTAL CENTER)



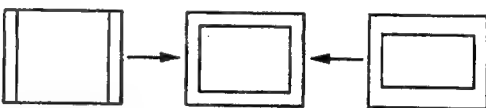
RV1504 H. SIZE (HORIZONTAL SIZE)



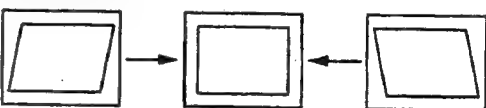
RV1506 V. CENT (VERTICAL CENTER)



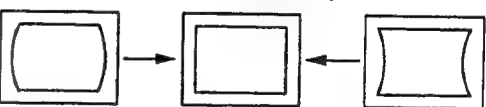
RV1507 V. SIZE (VERTICAL SIZE)



RV1509 V. ANGLE (VERTICAL ANGLE)



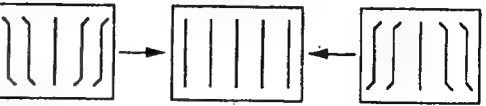
RV1503 PIN AMP (PINCUSHION AMPLIFIER)



RV1502 PIN PHASE (PINCUSHION PHASE)



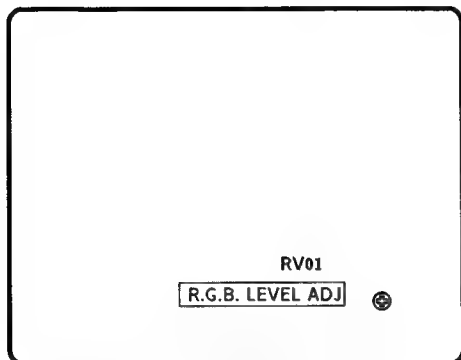
RV1501 PIN. COR (PINCUSHION CORRECT)



RV1505 CORNER COR (CORNER CORRECT)



4-5. V BOARD ADJUSTMENTS



V BOARD (COMPONENT SIDE)

RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

4-6. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

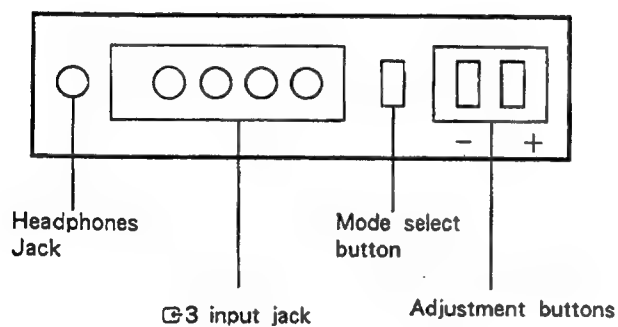
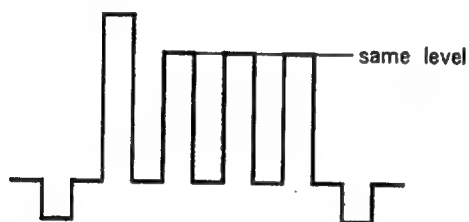
1. Set the system to receive a test pattern.
2. Press $\rightarrow \bullet \leftarrow$ on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and - simultaneously, turn on the power. (SUB mode is obtained)
5. Minimize the \bullet contrast setting.
6. Adjust the \odot brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the \diamond (store) button of the remote commander.
(SUB mode is released)

If there is no test color pattern

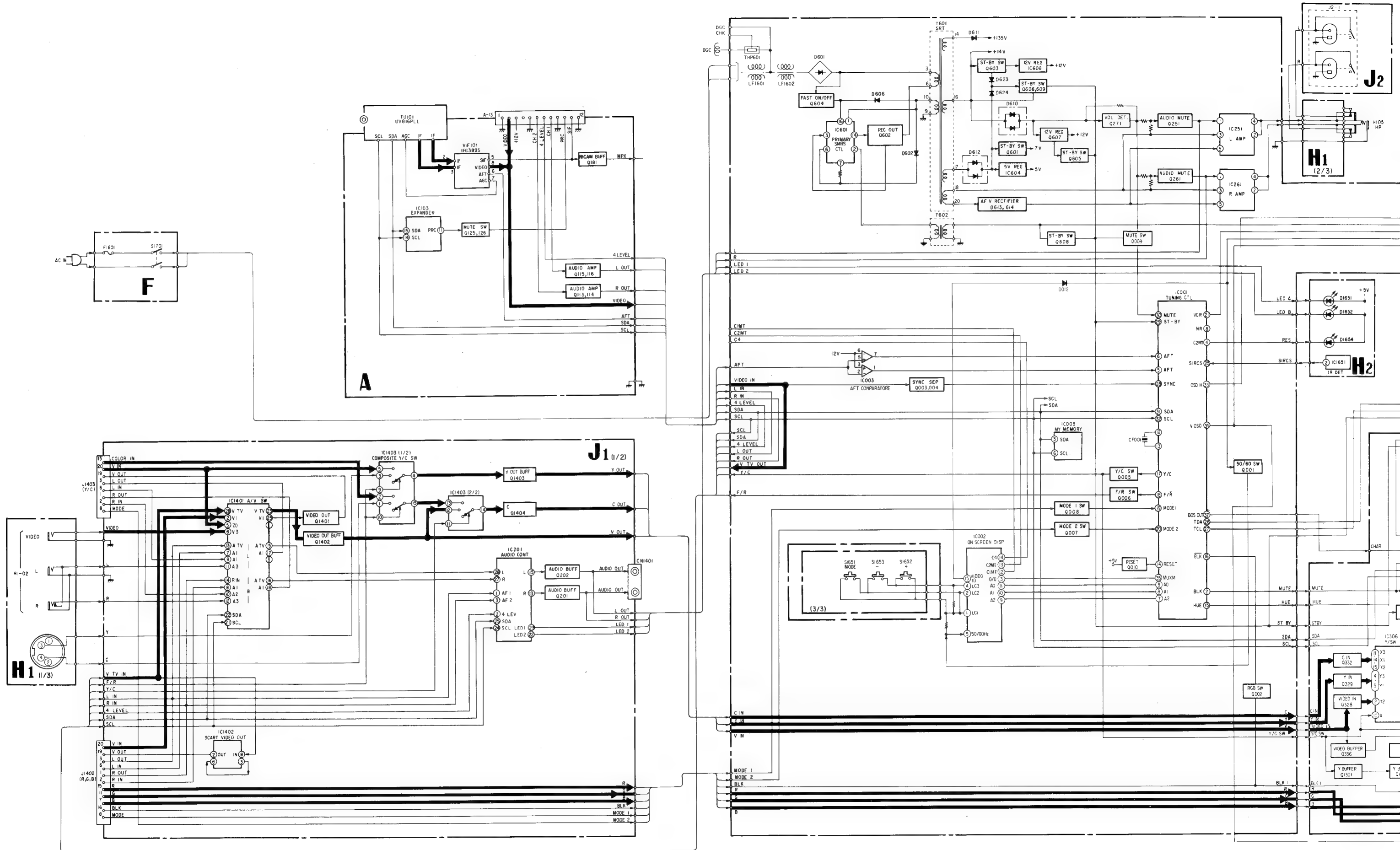
1. Set the system to receive a color pattern.
2. Press $\rightarrow \bullet \leftarrow$ on the remote commander to put the system into normal mode.
Set the \odot color to its normal state.
- 3-5. Steps are the same as above.
6. Since 20 IRE is nearly blue, adjust the \odot brightness control so that the blue barely glows.
7. Same as step 7 above.
8. Press $\rightarrow \bullet \leftarrow$ on the remote commander to put the system into normal mode.

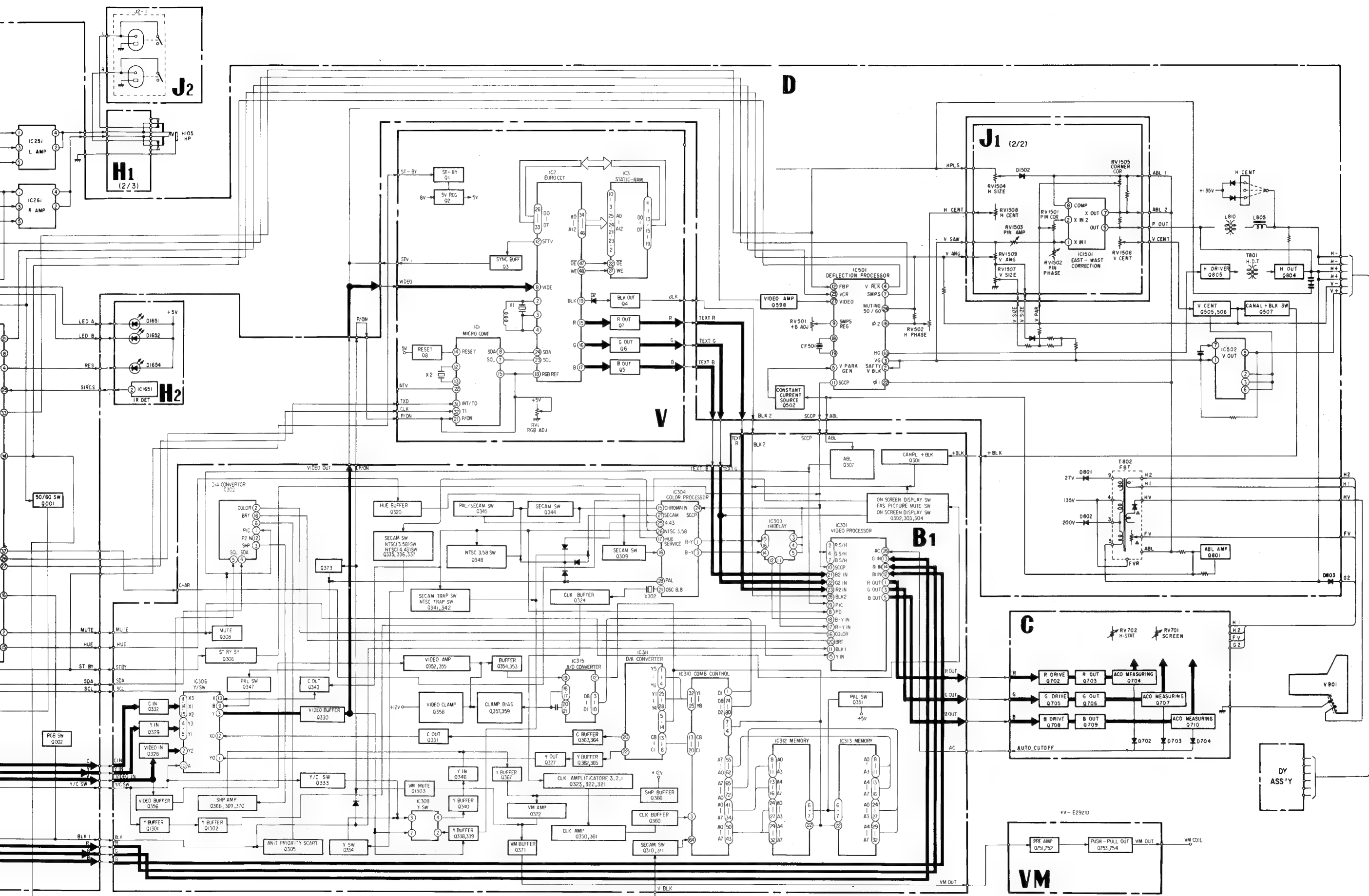
SUB COLOR ADJUSTMENT

1. Set the system to receive color bars.
2. Press → • ← on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and - simultaneously, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the ◇ (store) button of the remote commander. (SUB mode is released)

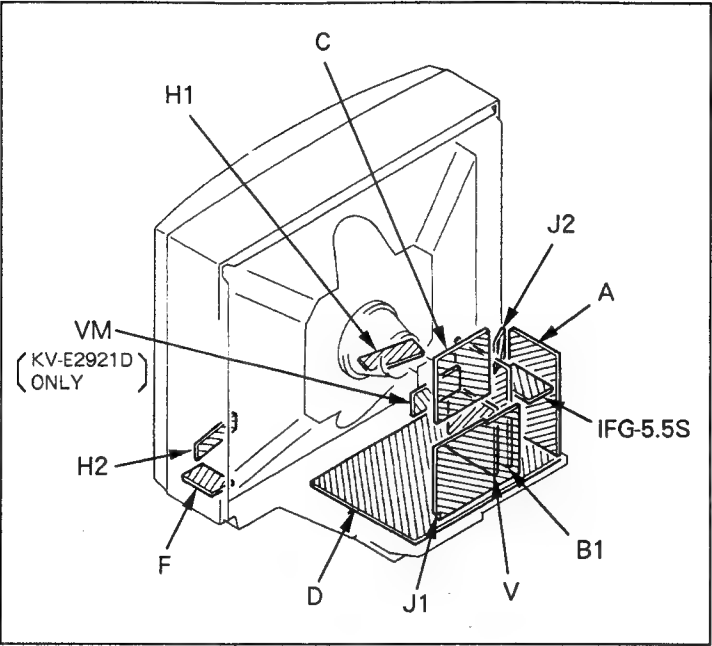


5-1. BLOCK DIAGRAM (1)






5-2. CIRCUIT BOARDS LOCATION








5-3. SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note :

- All capacitors are in μF unless otherwise noted.
pF: μF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm
Rating electrical power: 1/4W

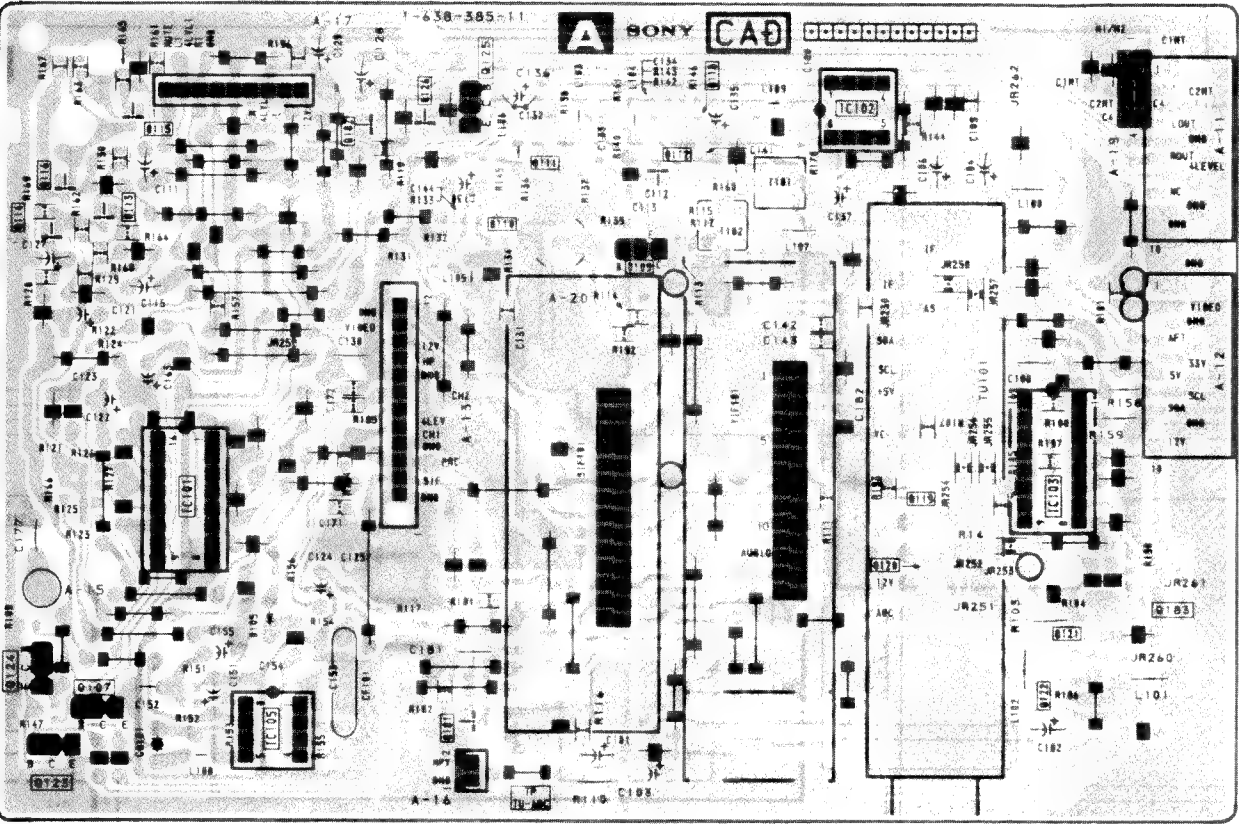
- Chip resistor is in 1/10W.
- All resistors are in ohms. $k\Omega = 1000\Omega$, $M\Omega = 1000k\Omega$
-  : nonflammable resistor.
-  : fusible resistor.
- \triangle : internal component.
-  : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a $10M\Omega$ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
-  : B+ line.
-  : signal path. (RF)

Reference information

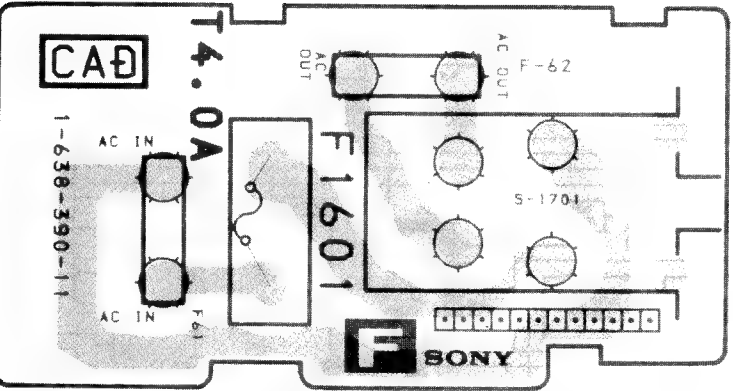
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

A [TUNER, SIF, VIF] **F** [AC IN, POWER SW] **J1** [AUDIO CONTROL, AV INPUT, Y/C INPUT, SCART VIDEO OUT, EAST-WEST CORRECTION] **J2** [SPEAKER TERMINAL] **VM** [KV-E2921D ONLY]

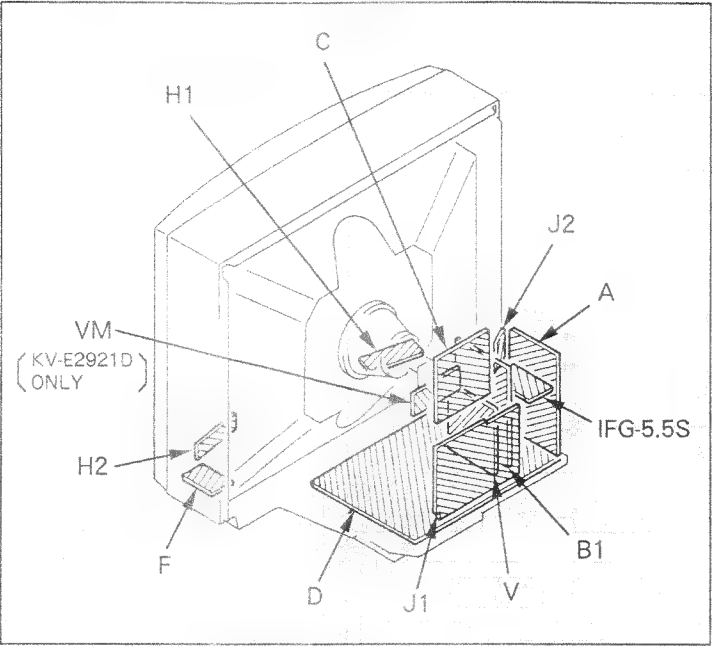
-A BOARD-




-F BOARD-



5-2. CIRCUIT BOARDS LOCATION








5-3. SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note :

- All capacitors are in μF unless otherwise noted.
pF: μF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power: 1/4W

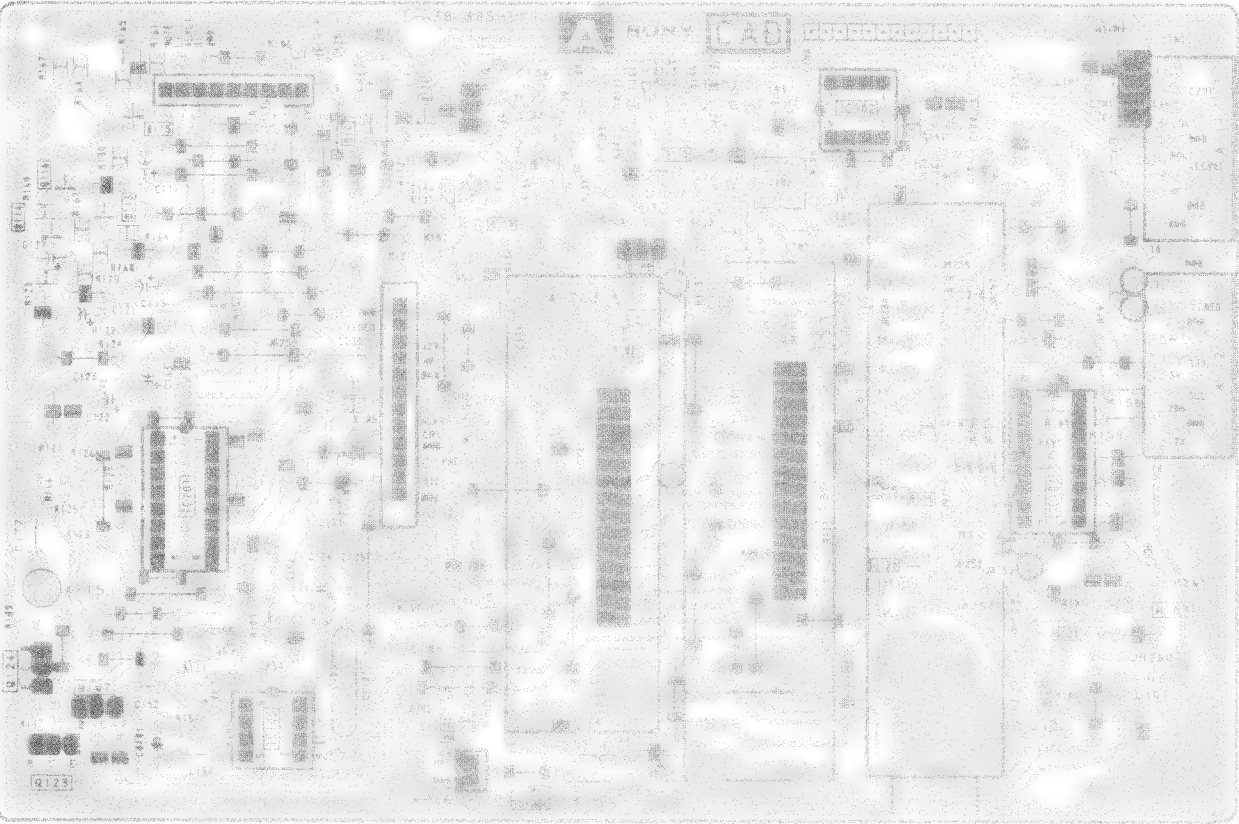
- Chip resistor is in 1/10W.
- All resistors are in ohms. $k\Omega = 1000\Omega$, $M\Omega = 1000k\Omega$
-  : nonflammable resistor.
-  : fusible resistor.
- Δ : internal component.
-  : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with \square 10M Ω digital multimeter.
- Readings are taken with \blacksquare color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
-  : B+ line.
-  : signal path. (RF)

Reference information

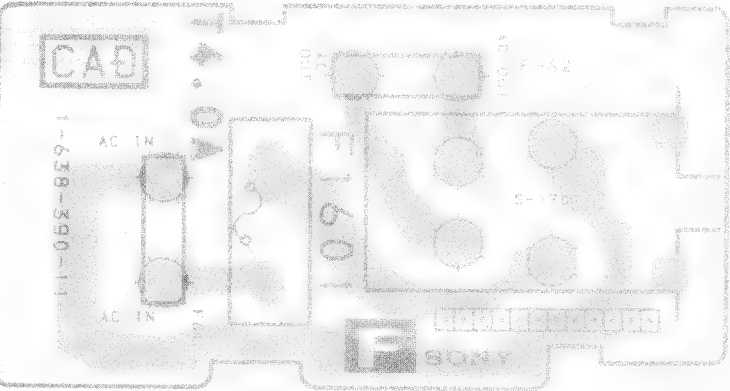
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
COIL	: *	ADJUSTMENT RESISTOR
	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

A [TUNER, SIF, VIF] **F** [AC IN, POWER SW] **J1** [AUDIO CONTROL, AV INPUT, Y/C INPUT, SCART VIDEO OUT, EAST-WEST CORRECTION] **J2** [SPEAKER TERMINAL] **VM** [TV]

—A BOARD—

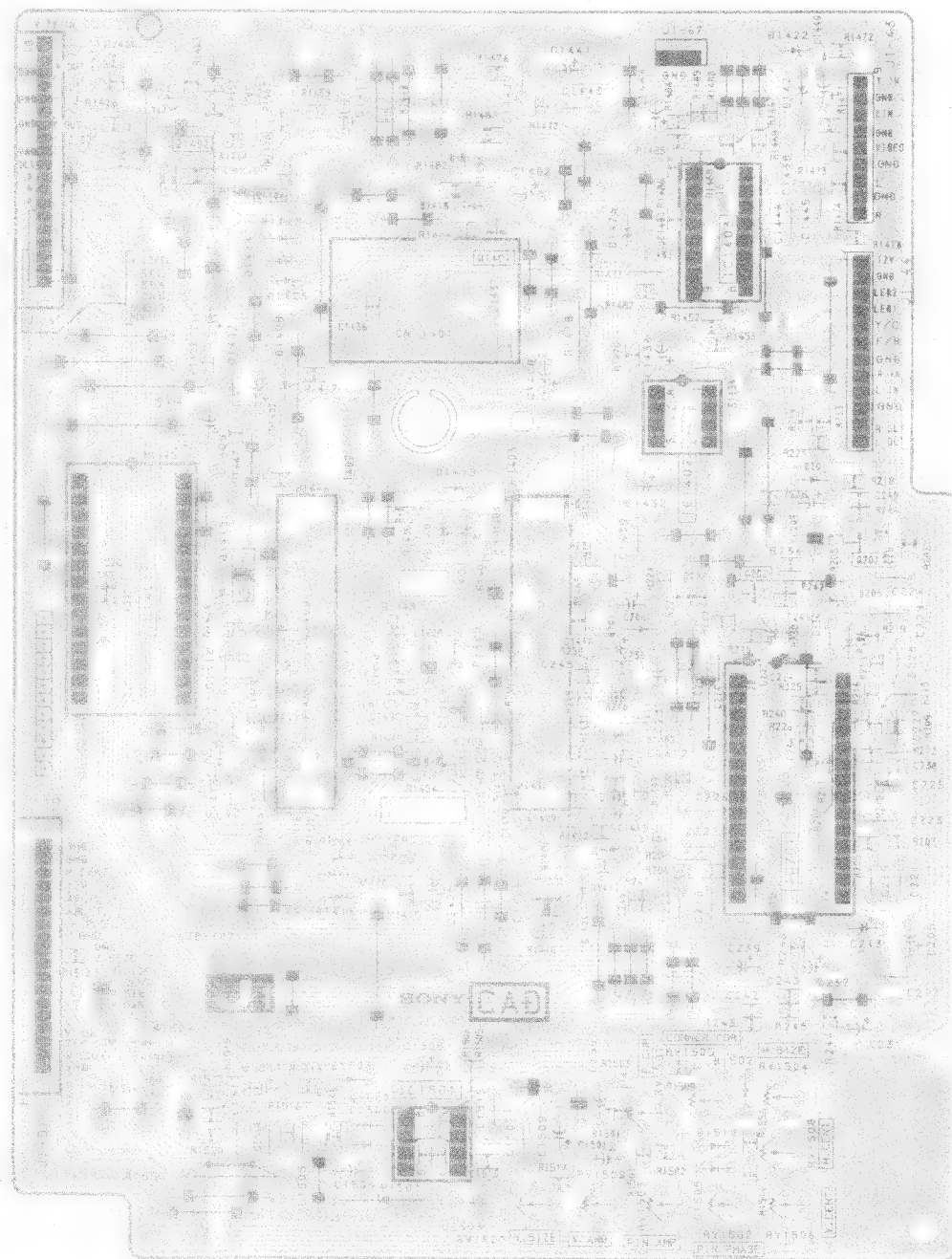


—F BOARD—

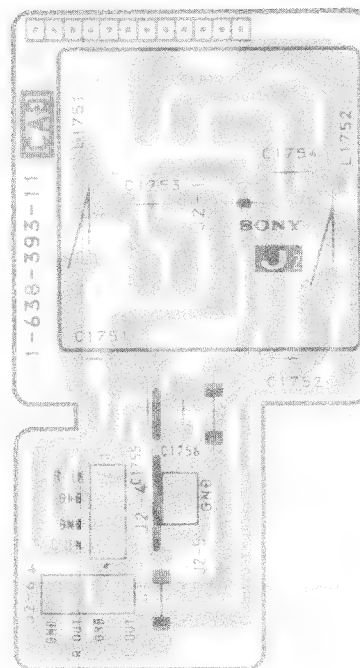


PEAKER TERMINAL] **VM** [VM AMP] **H1** [CONTROL SW, AV INPUT] [HEADPHONE] **H2** [SIRCS, RECEIVER, INDICATOR]

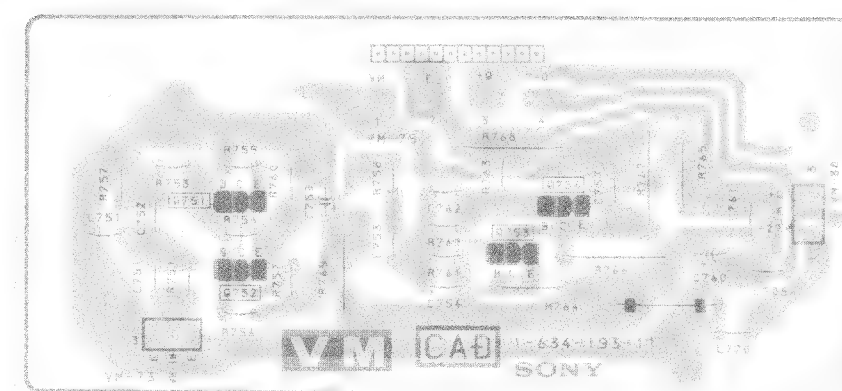
—J1 BOARD—



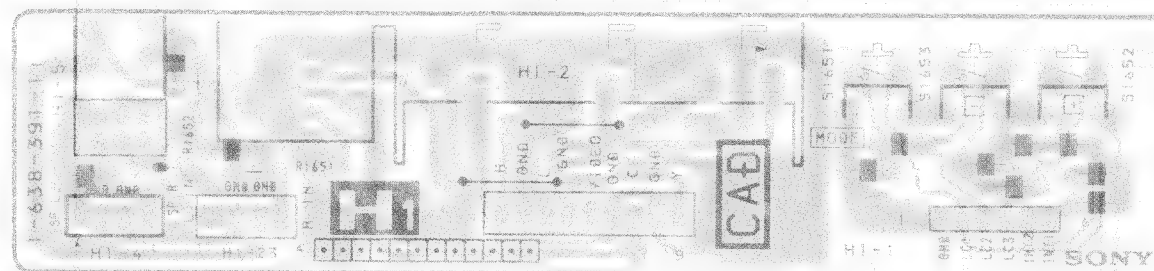
—J2 BOARD—



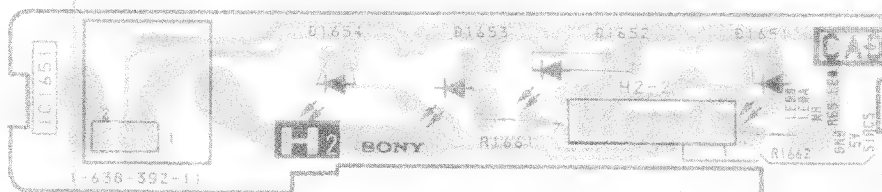
—VM BOARD— (KV-E2921D ONLY)

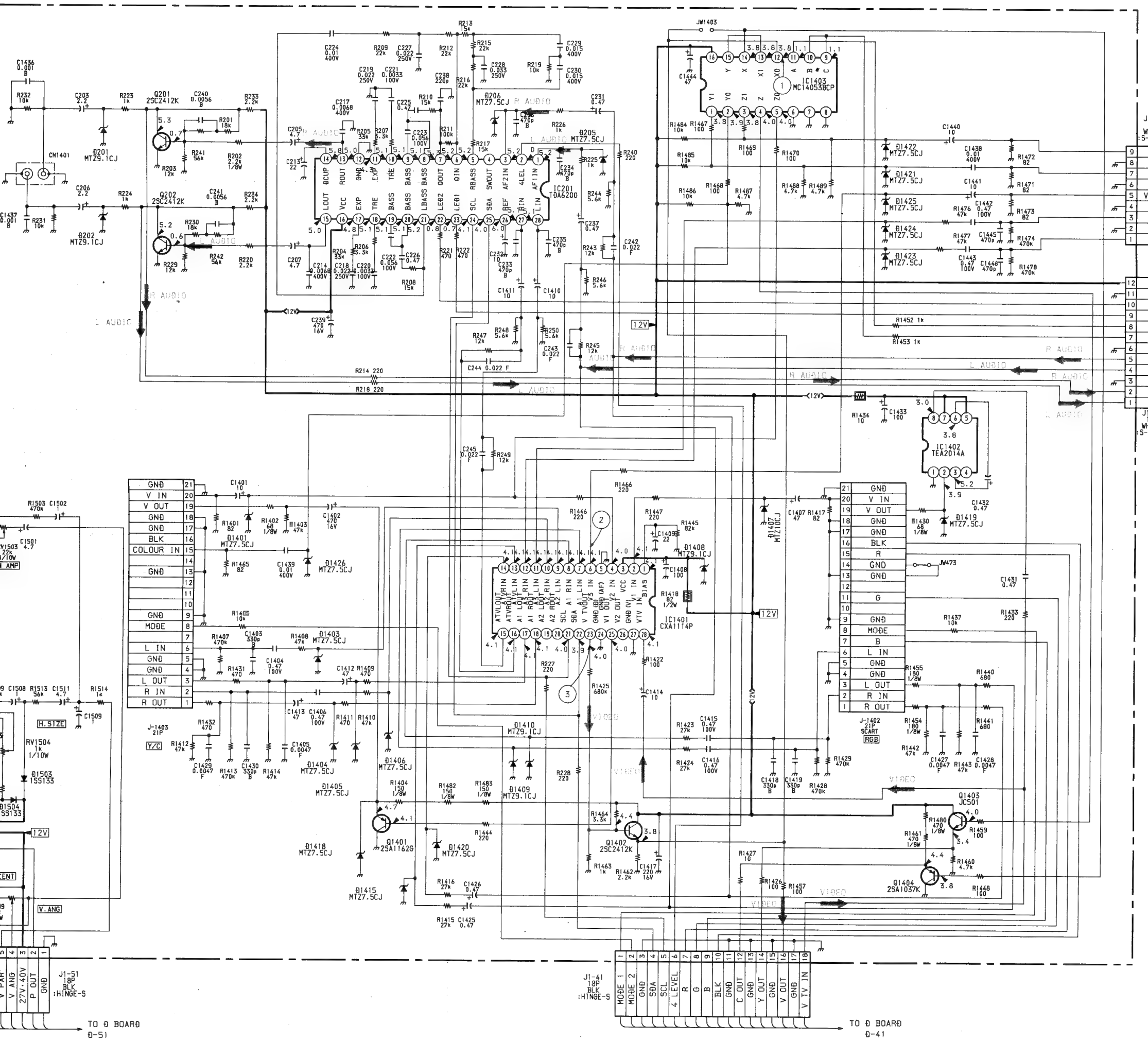


—H1 BOARD—

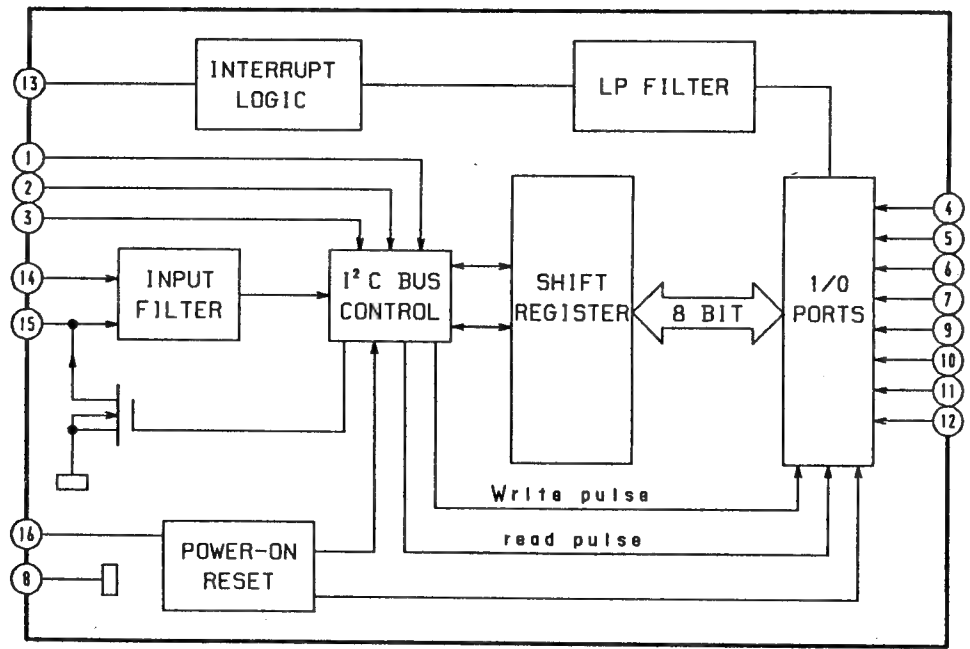


—H2 BOARD—





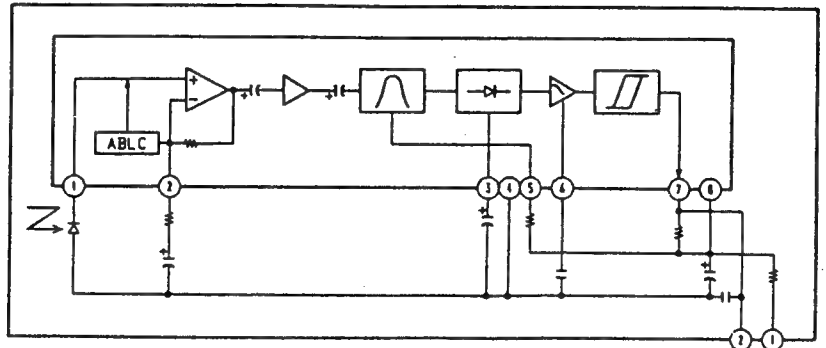
A BOARD IC103 PCF8574

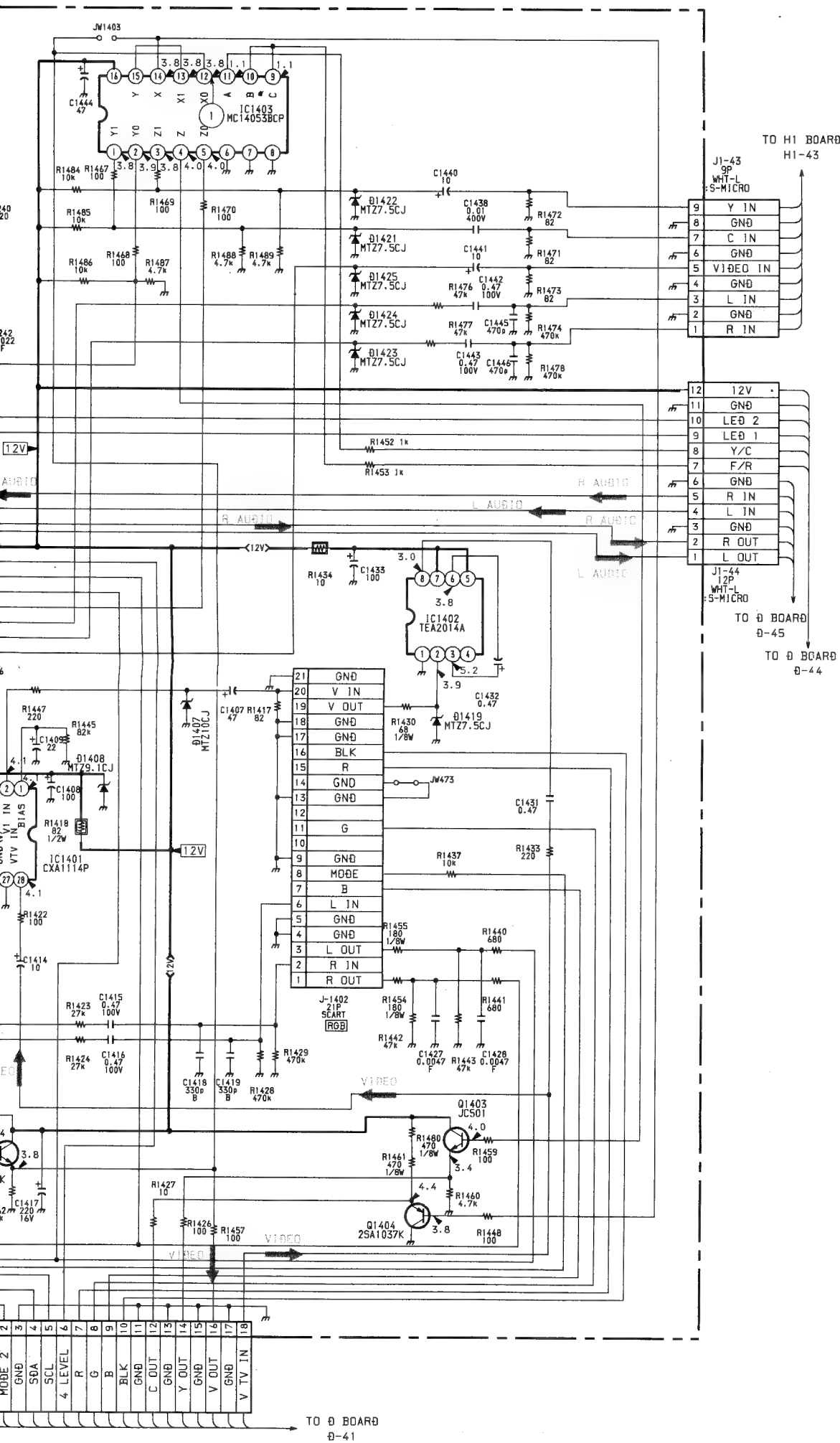


J1 BOARD *MARK

	KV-E25210	K
C1512	0.0068MF 400V	
C1514	0.022MF 250V	
C1515	820PF 50V	
R1515	680K 1/10W:CHIP	390
R1520	470K 1/10W:CHIP	390
R1550	JW	11W

H2 BOARD IC1651 SBX1810-11



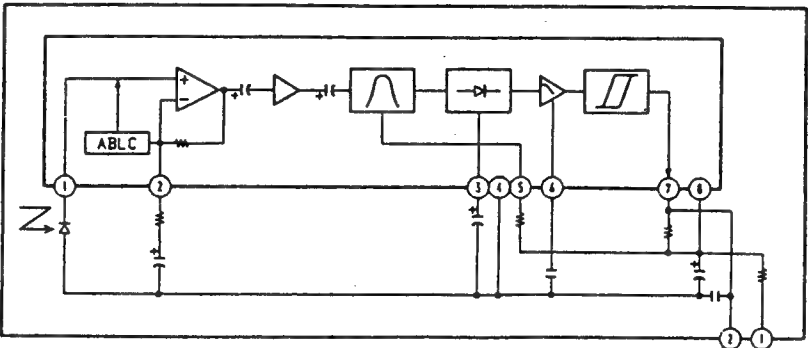


J1 BOARD *MARK

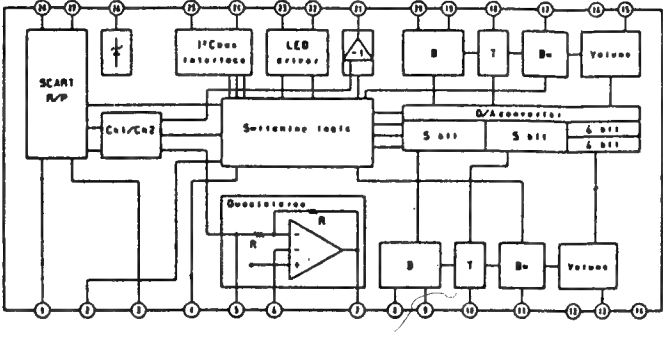
	KV-E2521D	KV-E2921D
C1512	0.0068MF 400V	—
C1514	0.022MF 250V	—
C1515	820PF 50V	—
R1515	680K 1/10W:CHIP	—
R1520	470K 1/10W:CHIP	390K 1/10W:CHIP
R1550	JW	11W : RS

— NOT MOUNTED

H2 BOARD IC1651 SBX1610-11



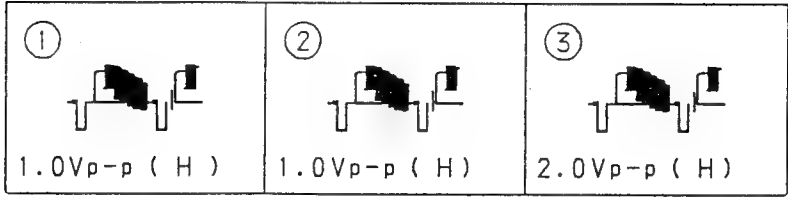
J1 BOARD IC201 TDA6200



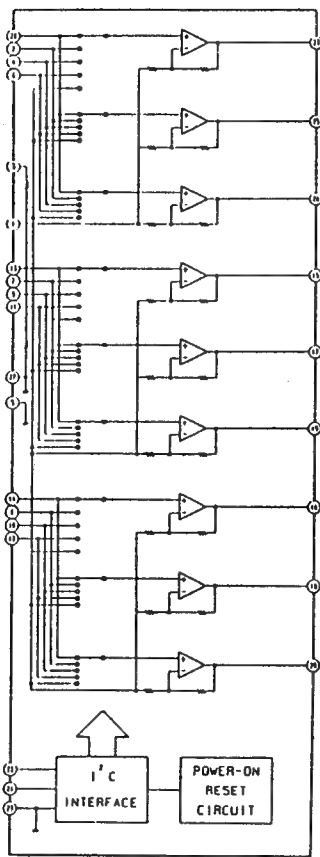
J1 BOARD

IC201	TDA6200	AUDIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIDEO OUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST-WEST CORRECTION
Q201	2SC2412K	AUDIO R BUFF
Q202	2SC2412K	AUDIO L BUFF
Q1401	2SA1162G	VIDEO OUT
Q1402	2SC2412K	VIDEO OUT BUFF
Q1403	JC501	Y OUT BUFF
Q1404	2SA1037K	C OUT BUFF
Q201	MTZJ-T-77-9.1C	PROTECT
Q202	MTZJ-T-77-9.1C	PROTECT
Q205	MTZJ-T-77-7.5C	PROTECT
Q206	MTZJ-T-77-7.5C	PROTECT
Q1401	MTZJ-T-77-7.5C	PROTECT
Q1403	MTZJ-T-77-7.5C	PROTECT
Q1404	MTZJ-T-77-7.5C	PROTECT
Q1405	MTZJ-T-77-7.5C	PROTECT
Q1406	MTZJ-T-77-7.5C	PROTECT
Q1407	MTZJ-T-77-10C	PROTECT
Q1408	MTZJ-T-77-9.1C	REG
Q1409	MTZJ-T-77-9.1C	PROTECT
Q1410	MTZJ-T-77-9.1C	PROTECT
Q1415	MTZJ-T-77-7.5C	PROTECT
Q1418	MTZJ-T-77-7.5C	PROTECT
Q1419	MTZJ-T-77-7.5C	PROTECT
Q1420	MTZJ-T-77-7.5C	PROTECT
Q1421	MTZJ-T-77-7.5C	PROTECT
Q1422	MTZJ-T-77-7.5C	PROTECT
Q1423	MTZJ-T-77-7.5C	PROTECT
Q1424	MTZJ-T-77-7.5C	PROTECT
Q1425	MTZJ-T-77-7.5C	PROTECT
Q1426	MTZJ-T-77-7.5C	PROTECT
Q1501	RGP10GPKG23	PROTECT
Q1502	ISS133	DE COUPLING H SIZE
Q1503	ISS133	CLIPPING V PARABORA
Q1504	ISS133	CLIPPING H PULSE
Q1505	ISS133	REG
Q1506	HZS36NB4TD	PROTECT
Q1507	ISS133	PROTECT
Q1510	ISS133	REG

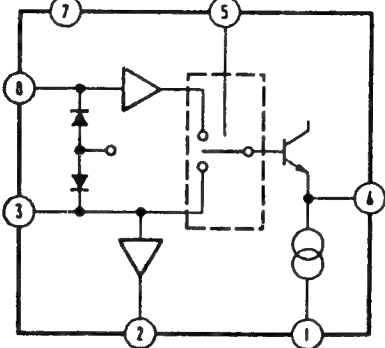
• WAVEFORMS J1 BOARD



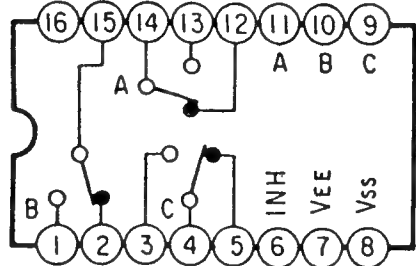
J1 BOARD IC1401 CXA1114P



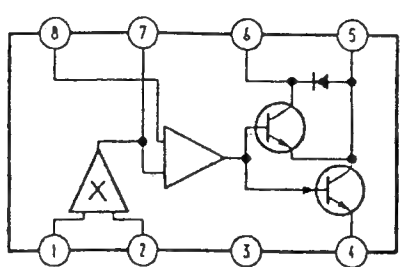
J1 BOARD IC1402 TEA2014A

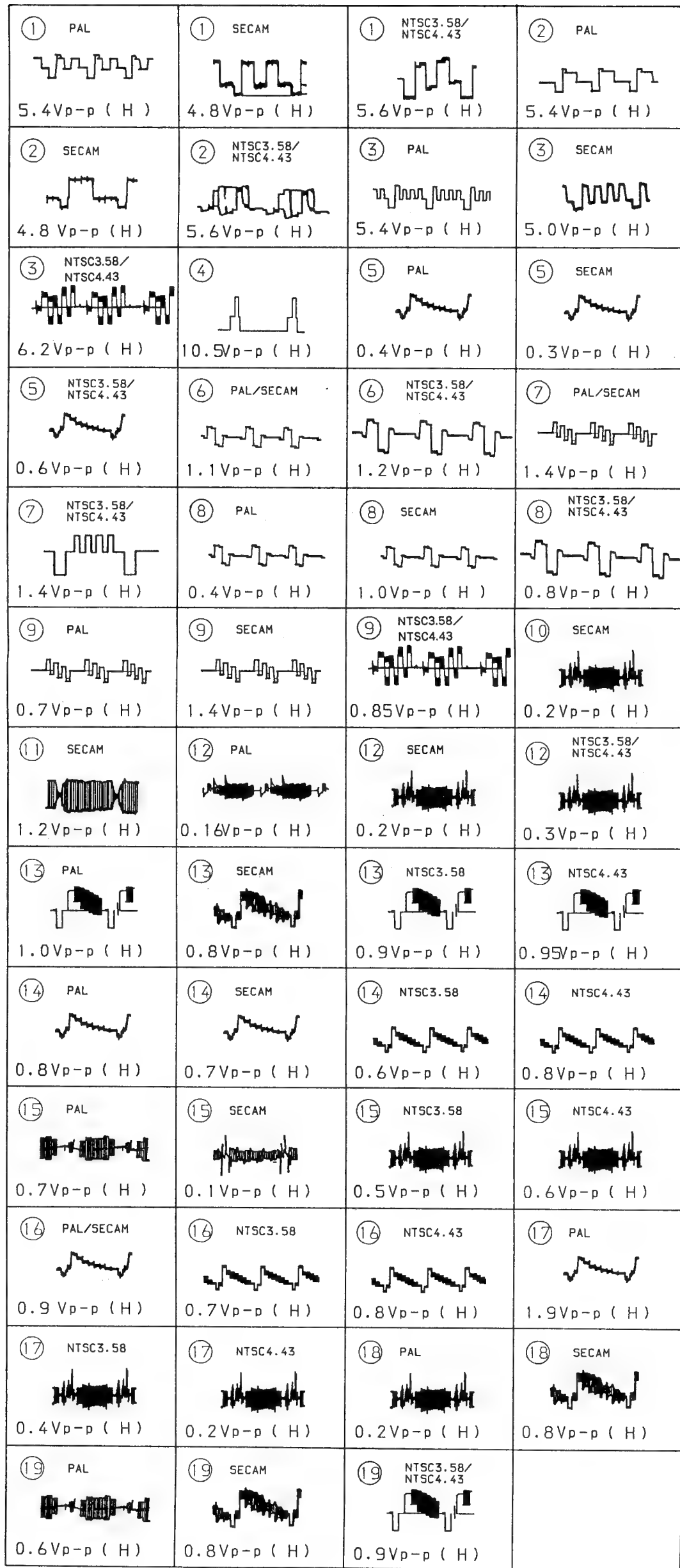


J1 BOARD IC1403 MC14053BCP



J1 BOARD IC1501 TEA2031A





As to the voltage value shown by the mark ※ on the Schematic Diagram, see the another list.

IC·NO	PIN·NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
IC301	(5)	6.7	4.8	4.8	4.8
	(19)	8.9	7.0	7.0	7.0
	(19)	3.4	3.4	3.8	3.4
	(24)	6.6	6.6	6.0	6.3
IC304	(1)	0.1	6.8	6.9	6.8
	(5)	9.9	0	9.9	9.9
	(7)	4.6	0	4.6	4.6
	(8)	3.4	3.0	3.4	3.4
	(9)	3.4	3.0	3.4	3.4
	(10)	4.6	3.4	4.6	4.6
	(11)	2.3	3.1	3.1	2.3
	(12)	5.6	5.6	5.6	7.4
	(13)	7.5	7.5	5.7	5.7
	(25)	0.1	0.1	0.1	6.0
	(26)	0.1	0.1	6.0	0.1
	(27)	0.1	6.0	0.1	0.1
	(28)	6.0	0.1	0.1	0.1

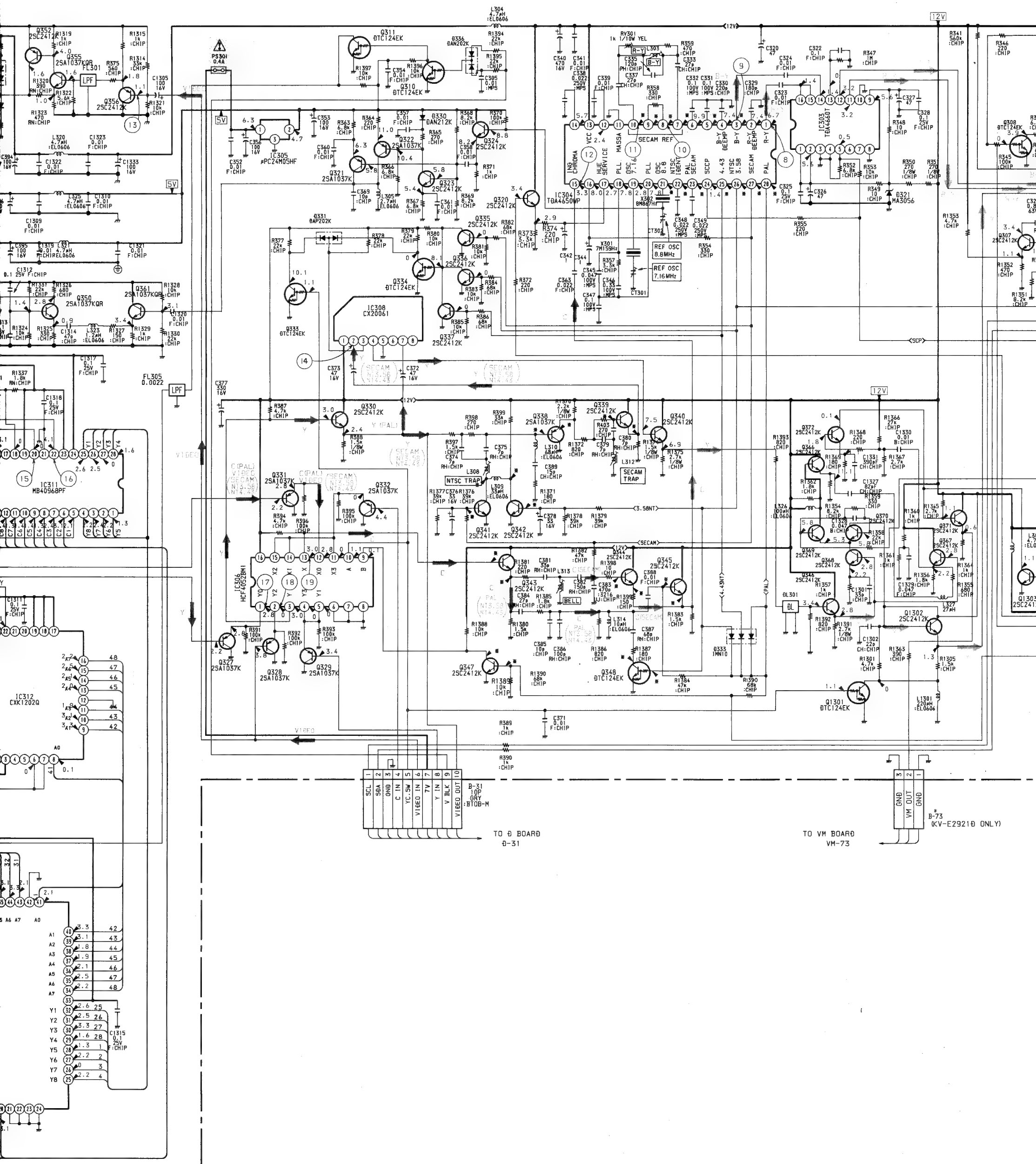
Q·NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
Q338	B 2.4	3.9	3.9	3.9
	E 3.0	4.6	4.6	4.6
Q339	B 3.0	4.6	4.6	4.6
	E 2.4	3.9	3.9	3.9
Q341	B 0	0.6	0.4	0.1
	C 11.6	0	11.6	11.6
Q342	B 0	0	0.4	0
	C 11.7	0	11.7	11.7
Q343	B 3.4	5.4	5.3	5.3
	E 2.8	4.7	4.7	4.7
Q344	B 0	5.4	1.0	0.1
	E 4.4	4.8	1.5	4.5
Q345	B 5.0	0.1	1.9	5.0
	E 4.4	4.4	1.4	4.4
Q347	B 0.6	0	0	0
	C 0.1	11.9	11.9	11.9
Q348	B 0.1	0.1	1.0	0.1
	C 1.3	0.2	0.2	0.4

B1 BOARD

IC301	TDA4580-V4	VIDEO PROCESSOR
IC302	TDA8442-N3	D/A CONVERTOR
IC303	TDA4660T	IH DELAY
IC304	TDA4650WP	COLOR PROCESSOR
IC305	μPC24M05HF	REGULATOR
IC306	HCF4052BM1	Y/C SW
IC308	CX20061	Y INTERRUPT
IC310	CXD2011Q	COMB CONTROL
IC311	MB40968PF	D/A CONVERTER
IC312	CXK1202Q	MEMORY
IC313	CXK1202Q	MEMORY
IC315	CXD1175AM	A/D CONVERTER
Q301	2SC2412K	CANRL +BLK
Q302	2SC2412K	ON SCREEN DISPLAY SW
Q303	2SC2412K	FAS PICTURE MUTE SW
Q304	2SC2412K	ON SCREEN DISPLAY SW
Q305	DTA144EK	ANIT PRIORITY SCART
Q306	2SC2412K	STBY SW
Q307	2SC2412K	ABL
Q308	DTC124EK	MUTE
Q310	DTC124EK	SECAM SW
Q311	DTC124EK	SECAM SW
Q320	2SC2412K	HUE BUFFER
Q321	2SA1037K	CLK AMP3
Q322	2SA1037K	CLK AMP2
Q323	2SC2412K	CLK AMP1
Q324	2SC2412K	CLK BUFFER
Q327	2SA1037K	Y OUT
Q328	2SA1037K	VIDEO IN
Q329	2SA1037K	Y IN
Q330	2SC2412K	VIDEO BUFFER
Q331	2SA1037K	C OUT
Q332	2SA1037K	C IN
Q333	DTC124EK	Y/C SW
Q334	DTC124EK	Y SW
Q335	2SC2412K	SECAM SW
Q336	2SC2412K	NTSC (3.58) SW
Q337	2SC2412K	NTSC (4.43) SW
Q338	2SA1037K	Y BUFFER
Q339	2SC2412K	Y BUFFER
Q340	2SC2412K	Y BUFFER
Q341	2SC2412K	SECAM TRAP SW
Q342	2SC2412K	NTSC TRAP SW
Q343	2SC2412K	C OUT
Q344	2SC2412K	SECAM SW
Q345	2SC2412K	PAL/SECAM SW
Q346	2SC2412K	Y IN
Q347	2SC2412K	PAL SW
Q348	DTC124EK	NTSC (3.58) SW
Q350	2SA1037KQR	CLK AMP
Q352	2SC2412K	VIDEO AMP
Q353	2SA1037KQR	BUFFER
Q354	2SA1037KQR	BUFFER
Q355	2SA1037KQR	VIDEO AMP
Q356	2SC2412K	VIDEO BUFFER
Q357	2SC2412K	CLAMP BIAS
Q358	2SA1037KQR	VIDEO CLAMP
Q359	2SC2412K	CLAMP BIAS
Q360	2SA1037KQR	CLK BUFFER
Q361	2SA1037KQR	CLK AMP
Q362	2SA1037KQR	Y BUFFER
Q363	2SA1037KQR	C BUFFER
Q364	2SC2412K	C BUFFER
Q365	2SC2412K	Y BUFFER
Q366	2SC2412K	SHP BUFFER
Q367	2SC2412K	Y BUFFER
Q368	2SC2412K	SHP AMP
Q369	2SC2412K	SHP AMP
Q370	2SC2412K	SHP AMP
Q371	2SC2412K	VM BUFFER
Q372	2SC2412K	VM AMP
Q373	DTC124EK	
Q1301	DTC124EK	Y BUFFER
Q1302	2SC2412K	Y BUFFER
Q1303	2SC2412K	VM MUTE
Q301	1MN10	ACO AT ATBY
Q304	0AN212K	PROTECT
Q305	0AN212K	PROTECT
Q307	MA3110M	PROTECT
Q308	0AN212K	PROTECT
Q309	0AN212K	PROTECT
Q310	MA3110M	PROTECT
Q311	MA3110M	PROTECT
Q312	MA3110M	PROTECT
Q314	0A204K	PROTECT
Q318	0A204K	PROTECT
Q319	0A204K	PROTECT
Q320	0A204K	PROTECT
Q321	MA3056	REG
Q322	0AN212K	PROTECT
Q330	0AN212K	BIAS
Q331	0AP202K	Y/C SW
Q333	1MN10	SYSTEM SW
Q336	0AN202K	CORRECT SW
Q340	0A204K	VIDEO AMP
Q341	0AN212K	VIDEO AMP

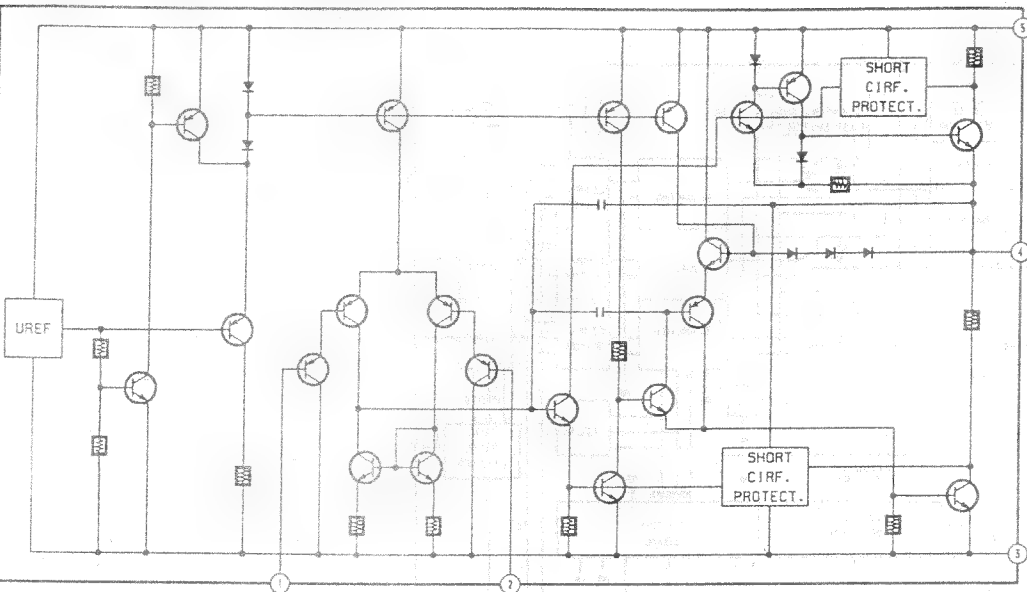
B1 BOARD *MARK

	KV-E2521D	KV-E2921D
R343	560Ω 1/10W	2.2k 1/10W
R1308	0Ω 1/10W	4.7k 1/10W
B-73	OPEN	3P

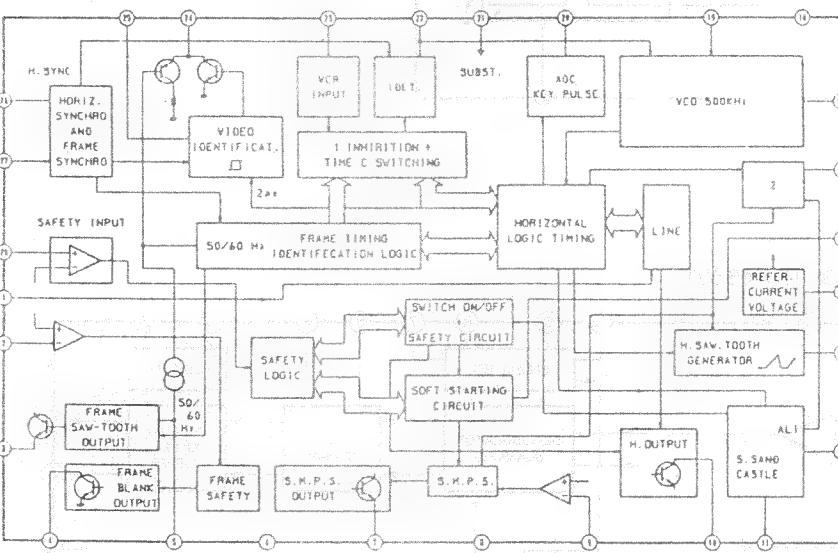




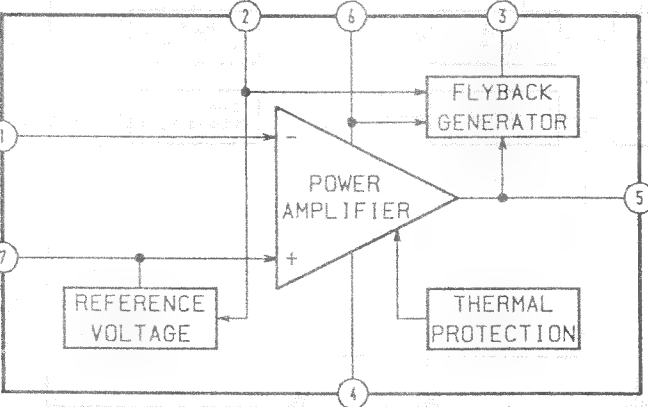
D BOARD IC251/261 TDA2050



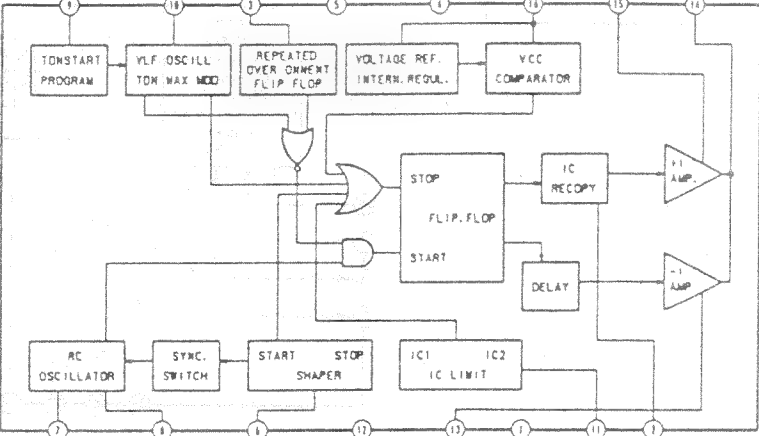
D BOARD IC501 TEA2028B



D BOARD IC502 TDA8170



D BOARD IC601 TEA2260



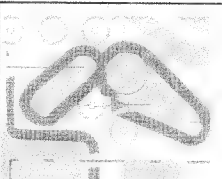
D [TUNING CONTROL, POWER CONTROL,
AUDIO OUT, H/V OUT]

-D BOARD-



IC		D010	I-2
IC001	B-2	D011	I-2
IC002	E-2	D012	D-2
IC003	D-1	D013	E-2
IC005	H-2	D271	C-6
IC251	G-5	D272	E-6
IC261	D-5	D501	I-8
IC501	H-7	D504	F-6
IC502	G-7	D506	H-7
IC601	A-8	D508	J-6
IC604	A-5	D509	F-7
IC608	B-3	D511	G-7
		D512	G-7
		D513	G-7
		D514	G-6
		D515	F-6
TR		D601	A-8
Q001	E-2	D602	C-8
Q002	E-3	D603	A-7
Q003	E-1	D604	A-7
Q004	F-2	D605	C-8
Q005	C-2	D606	C-8
Q006	C-1	D607	B-8
Q007	H-2	D608	C-9
Q008	H-2	D609	B-8
Q009	D-3	D610	C-5
Q010	A-2	D611	E-7
Q251	G-5	D612	B-5
Q261	E-5	D613	A-6
Q271	D-6	D614	A-6
Q502	H-7	D616	E-6
Q505	F-7	D617	B-7
Q506	F-7	D618	E-6
Q507	J-6	D619	B-8
Q598	I-2	D620	E-6
Q601	B-4	D621	B-8
Q602	C-10	D622	E-6
Q603	B-5	D623	B-5
Q604	A-7	D624	C-5
Q605	E-7	D630	E-7
Q606	D-5	D801	G-10
Q607	D-6	D802	H-12
Q608	D-6	D803	I-13
Q609	C-5	D804	F-9
Q801	J-6	D805	F-9
Q804	G-13	D806	F-12
Q805	G-9	D807	F-12
		D808	E-11
D		VR	
D003	B-3	RV501	G-6
D005	I-2	RV502	I-8
D006	G-1	RV601	A-8
D007	B-2		
D009	F-1		

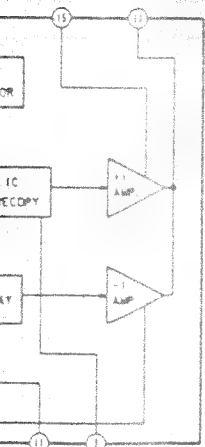
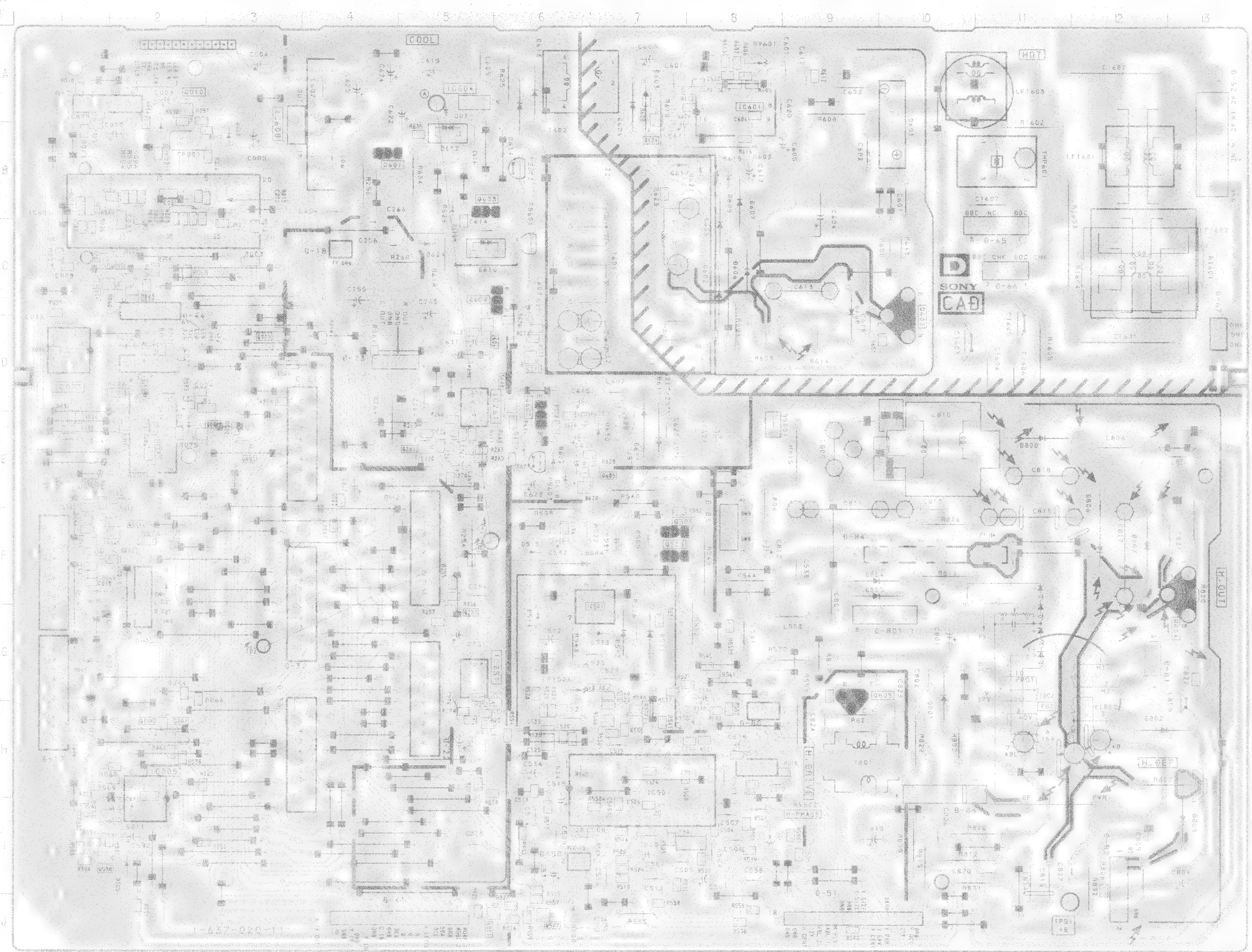
D [TUNING CONTROL, POWER CONTROL,
AUDIO OUT, H/V OUT]



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

IC		D010	I-2
IC001	B-2	D011	I-2
IC002	E-2	D012	D-2
IC003	D-1	D013	E-2
IC005	H-2	D271	C-6
IC251	G-5	D272	E-6
IC261	D-5	D501	I-8
IC501	H-7	D504	F-6
IC502	G-7	D506	H-7
IC601	A-8	D508	J-6
IC604	A-5	D509	F-7
IC608	B-3	D511	G-7
		D512	G-7
		D513	G-7
		D514	G-6
		D515	F-6
TR		D601	A-8
Q001	E-2	D602	
Q002	E-3	D603	A-7
Q003	E-1	D604	A-7
Q004	F-2	D605	C-8
Q005	C-2	D606	C-8
Q006	C-1	D607	B-8
Q007	H-2	D608	C-9
Q008	H-2	D609	B-8
Q009	D-3	D610	C-5
Q010	A-2	D611	E-7
Q251	G-5	D612	B-5
Q261	E-5	D613	A-6
Q271	D-6	D614	A-6
Q502	H-7	D616	E-6
Q505	F-7	D617	B-7
Q506	F-7	D618	E-6
Q507	J-6	D619	B-8
Q598	I-2	D620	E-6
Q601	B-4	D621	B-8
Q602	C-10	D622	E-6
Q603	B-5	D623	B-5
Q604	A-7	D624	C-5
Q605	E-7	D630	E-7
Q606	D-5	D801	G-10
Q607	D-6	D802	H-12
Q608	D-6	D803	I-13
Q609	C-5	D804	F-9
Q801	J-6	D805	F-9
Q804	G-13	D806	F-12
Q805	G-9	D807	F-12
		D808	E-11
D		VR	
D003	B-3	RV501	G-6
D005	I-2	RV502	I-8
D006	G-1	RV601	A-8
D007	B-2		
D009	F-1		

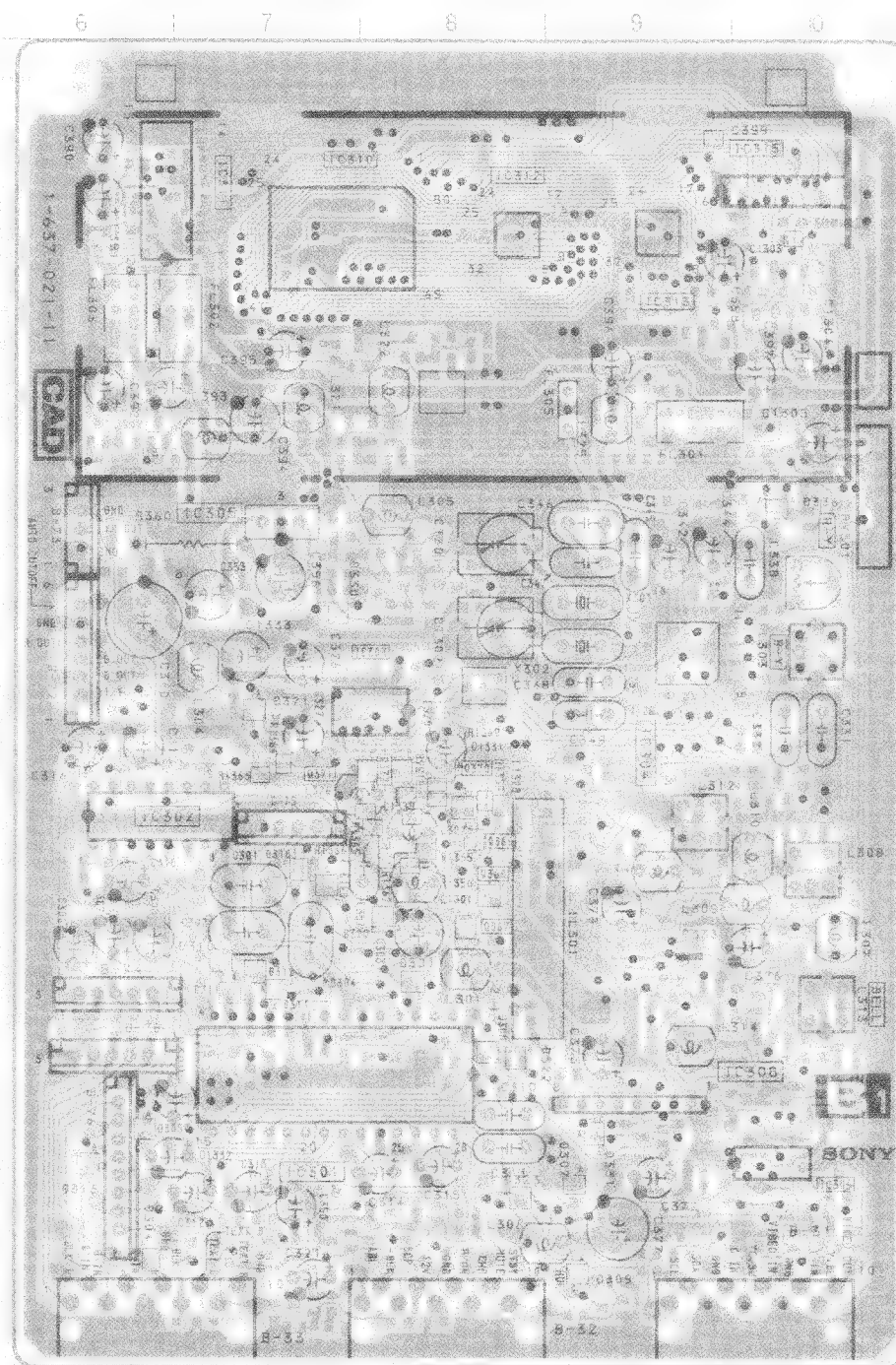
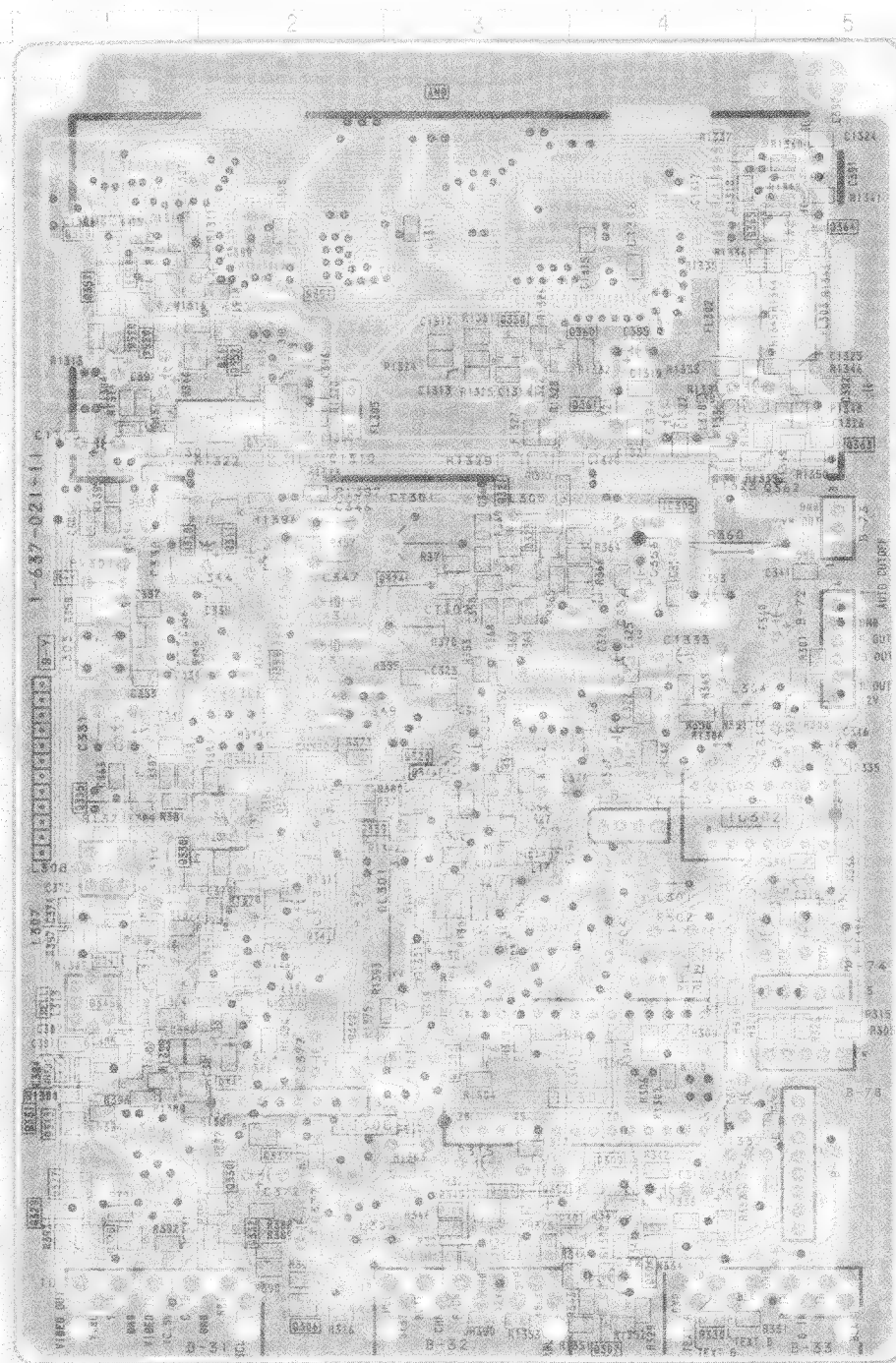
-D BOARD-



B1

VIDEO PROCESSOR, COLOR PROCESSOR,
Y/C SW. D/A CONVERTER, MEMORY,
A/D CONVERTER

—B1 BOARD—

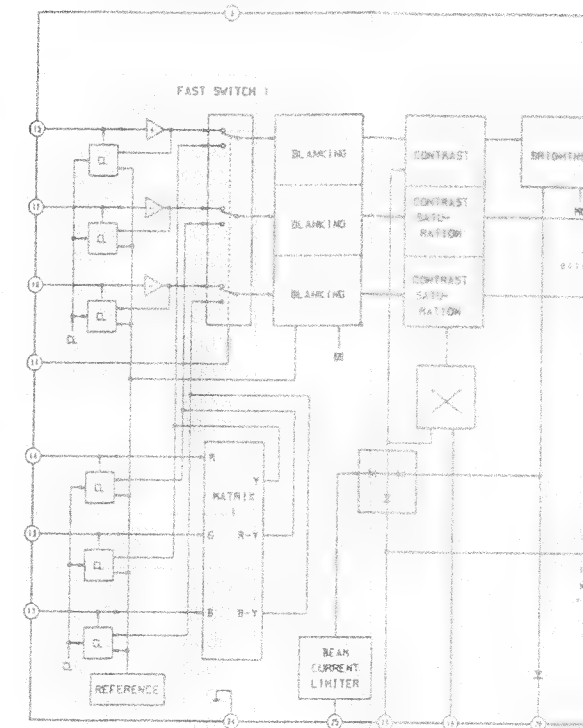


Note :

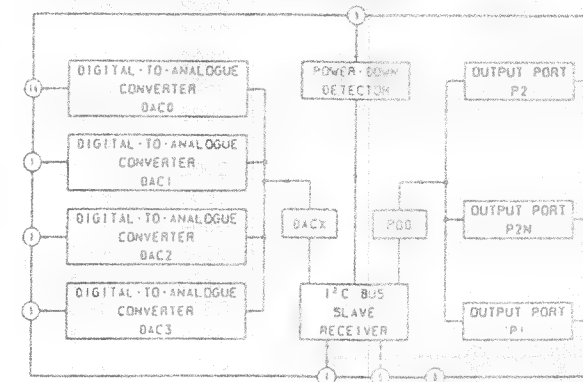
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

IC			
IC301	F-7	Q353	B-1
IC302	E-6	Q354	B-1
IC303	D-8	Q355	C-2
IC304	D-9	Q356	C-1
IC305	C-7	Q357	B-1
IC306	G-10	Q358	B-1
IC308	F-9	Q359	B-1
IC310	A-7	Q360	B-3
IC311	A-7	Q361	C-4
IC312	B-8	Q362	C-5
IC313	B-9	Q363	C-5
IC315	A-10	Q364	B-5
		Q365	A-5
		Q366	D-3
		Q367	E-8
		Q368	E-8
		Q369	E-8
		Q370	E-8
		Q371	D-8
		Q372	D-8
		Q373	
		Q1301	E-3
		Q1302	E-3
		Q1303	F-3
TR			
Q301	G-3		
Q302	G-3		
Q303	G-3		
Q304	G-4		
Q305	E-4		
Q306	G-2		
Q307	G-4		
Q308	G-4		
Q310	C-1		
Q311	C-2		
Q320	D-3		
Q321	C-3		
Q322	C-3		
Q323	C-3		
Q324	C-3		
Q327	G-1		
Q328	G-1		
Q329	G-1		
Q330	G-2		
Q331	F-1		
Q332	G-2		
Q333	F-2		
Q334	E-2		
Q335	E-1		
Q336	D-2		
Q337	D-2		
Q338	E-1		
Q339	E-2		
Q340	F-2		
Q341	E-1		
Q342	E-2		
Q343	F-1		
Q344	F-1		
Q345	F-1		
Q346	E-3		
Q347	F-1		
Q348	F-2		
Q350	B-3		
Q352	B-2		
		D	
		D301	F-8
		D304	G-6
		D305	F-6
		D307	G-9
		D308	F-8
		D309	G-9
		D310	E-7
		D311	F-7
		D312	E-7
		D314	F-7
		D318	E-7
		D319	E-7
		D320	E-8
		D321	D-7
		D322	F-8
		D330	D-7
		D331	F-9
		D333	E-9
		D336	C-10
		D340	B-1
		D341	B-2
		VR	
		RV301	C-10

B1 BOARD IC301 TDA4580-V4



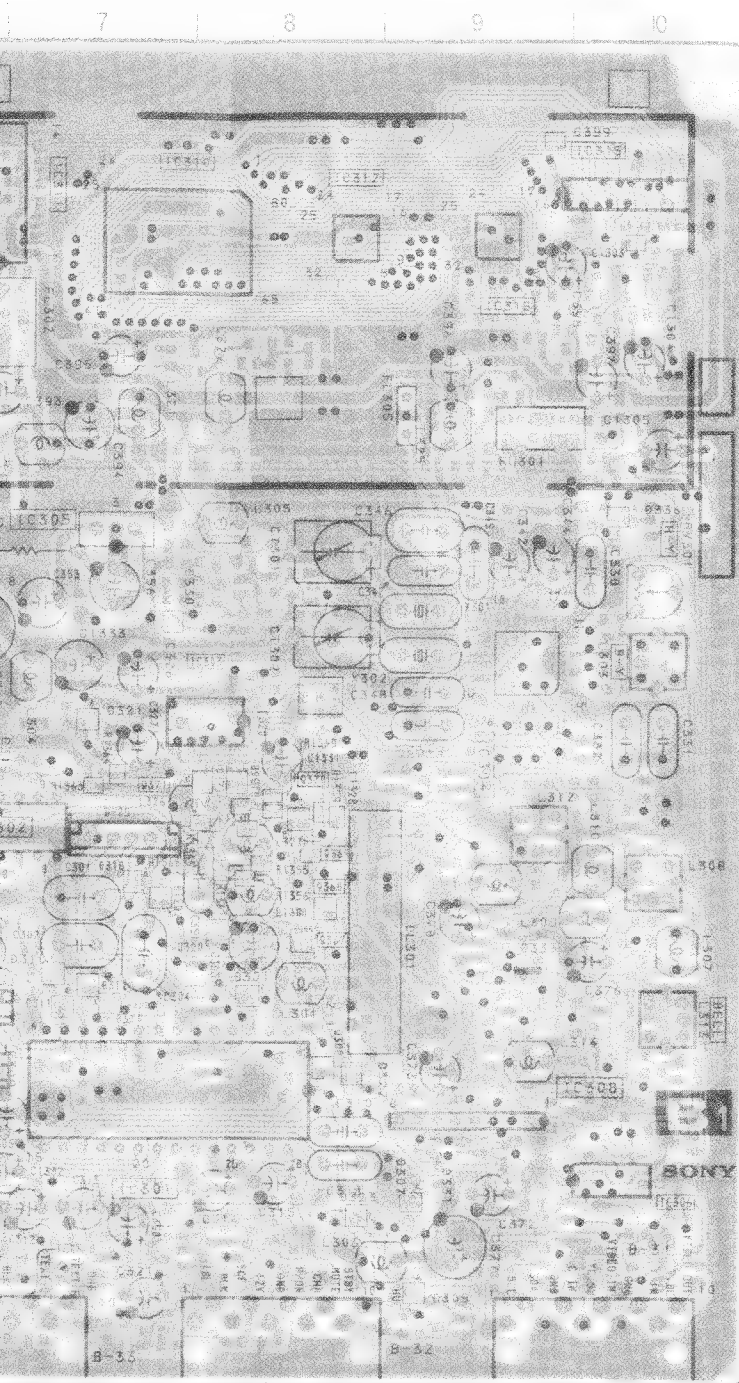
B1 BOARD IC302 TDA8442-N3



Note:

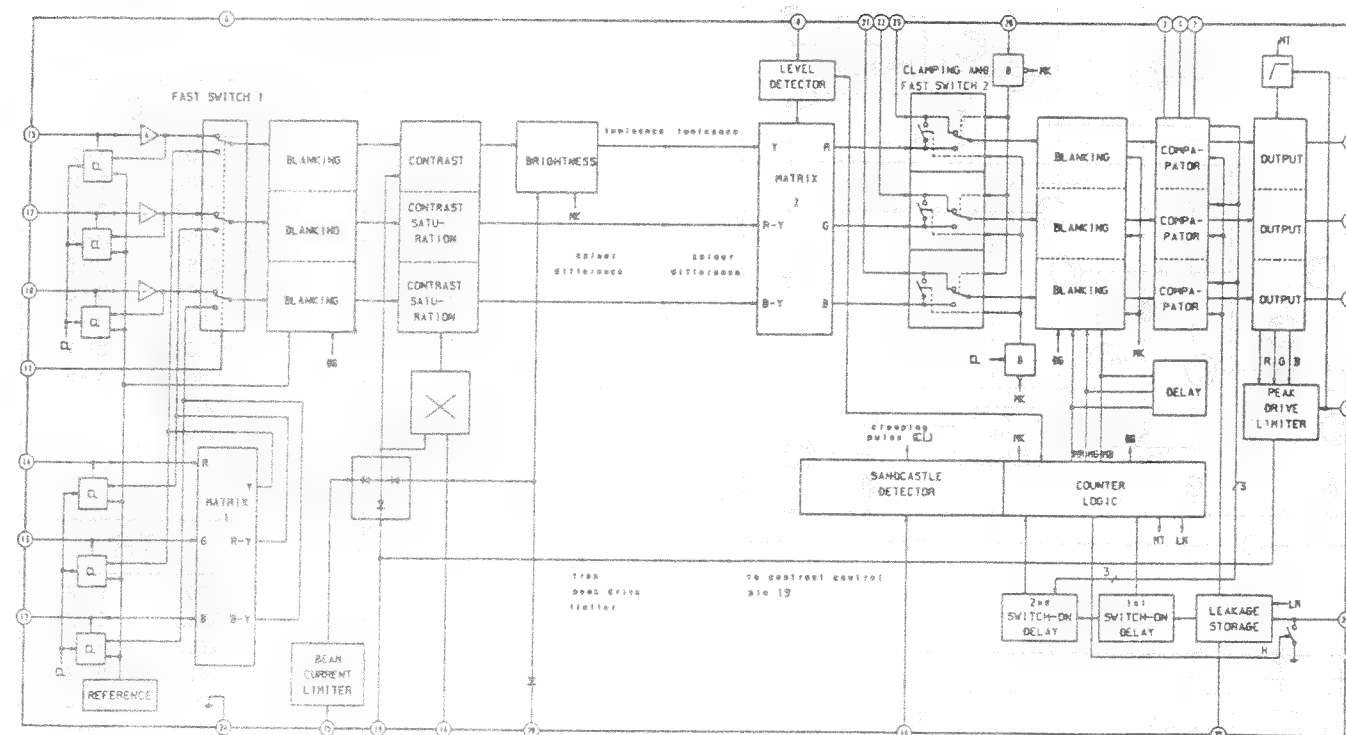
• : Pattern from the side which enables seeing.

• : Pattern of the rear side.

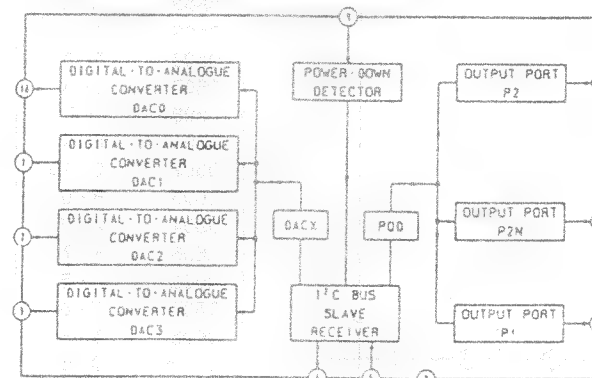


IC			
IC301	F-7	Q353	B-1
IC302	E-6	Q354	B-1
IC303	D-8	Q355	C-2
IC304	D-9	Q356	C-1
IC305	C-7	Q357	B-1
IC306	G-10	Q358	B-1
IC308	F-9	Q359	B-1
IC310	A-7	Q360	B-3
IC311	A-7	Q361	C-4
IC312	B-8	Q362	C-5
IC313	B-9	Q363	C-5
IC315	A-10	Q364	B-5
		Q365	A-5
		Q366	D-3
		Q367	E-8
		Q368	E-8
		Q369	E-8
		Q370	E-8
		Q371	D-8
		Q372	D-8
		Q373	
		Q1301	E-3
		Q1302	E-3
		Q1303	F-3
TR			
Q301	G-3		
Q302	G-3		
Q303	G-3		
Q304	G-4		
Q305	E-4		
Q306	G-2		
Q307	G-4		
Q308	G-4		
Q310	C-1		
Q311	C-2		
Q320	D-3		
Q321	C-3		
Q322	C-3		
Q323	C-3		
Q324	C-3		
Q327	G-1		
Q328	G-1		
Q329	G-1		
Q330	G-2		
Q331	F-1		
Q332	G-2		
Q333	F-2		
Q334	E-2		
Q335	E-1		
Q336	D-2		
Q337	D-2		
Q338	E-1		
Q339	E-2		
Q340	F-2		
Q341	E-1		
Q342	E-2		
Q343	F-1		
Q344	F-1		
Q345	F-1		
Q346	E-3		
Q347	F-1		
Q348	F-2		
Q350	B-3		
Q352	B-2		
		D	
		D301	F-8
		D304	G-6
		D305	F-6
		D307	G-9
		D308	F-8
		D309	G-9
		D310	E-7
		D311	F-7
		D312	E-7
		D314	F-7
		D318	E-7
		D319	E-7
		D320	E-8
		D321	D-7
		D322	F-8
		D330	D-7
		D331	F-9
		D333	E-9
		D336	C-10
		D340	B-1
		D341	B-2
		VR	
		RV301	C-10

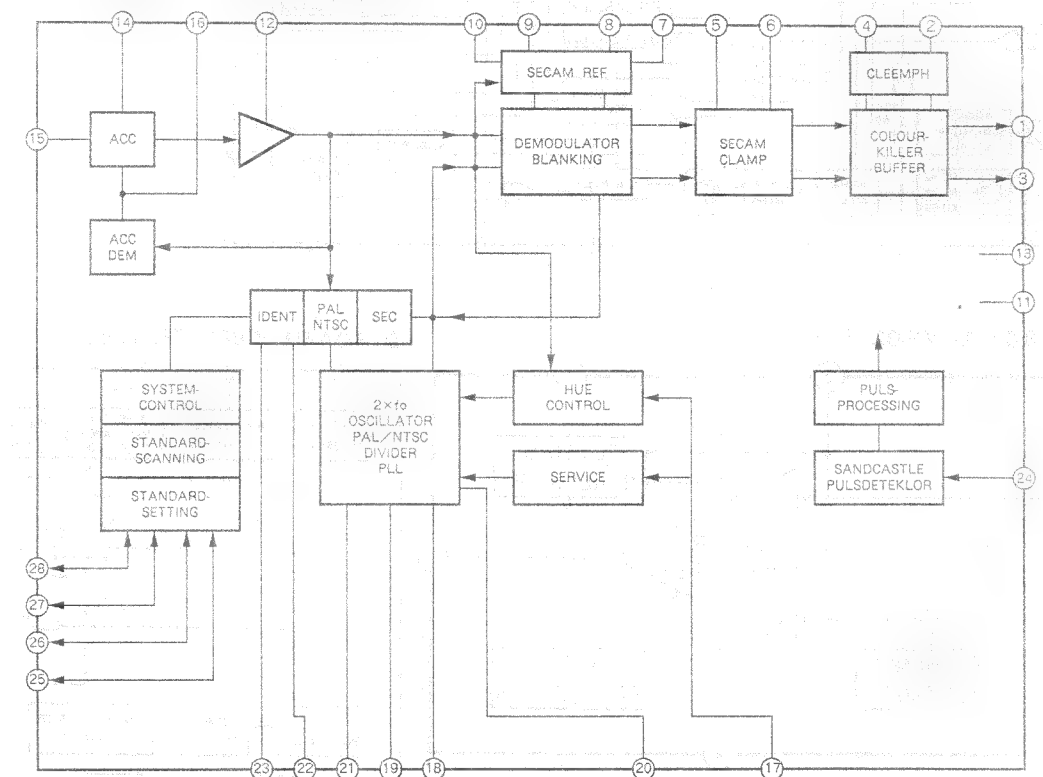
B1 BOARD IC301 TDA4580-V4



B1 BOARD IC302 TDA8442-N3

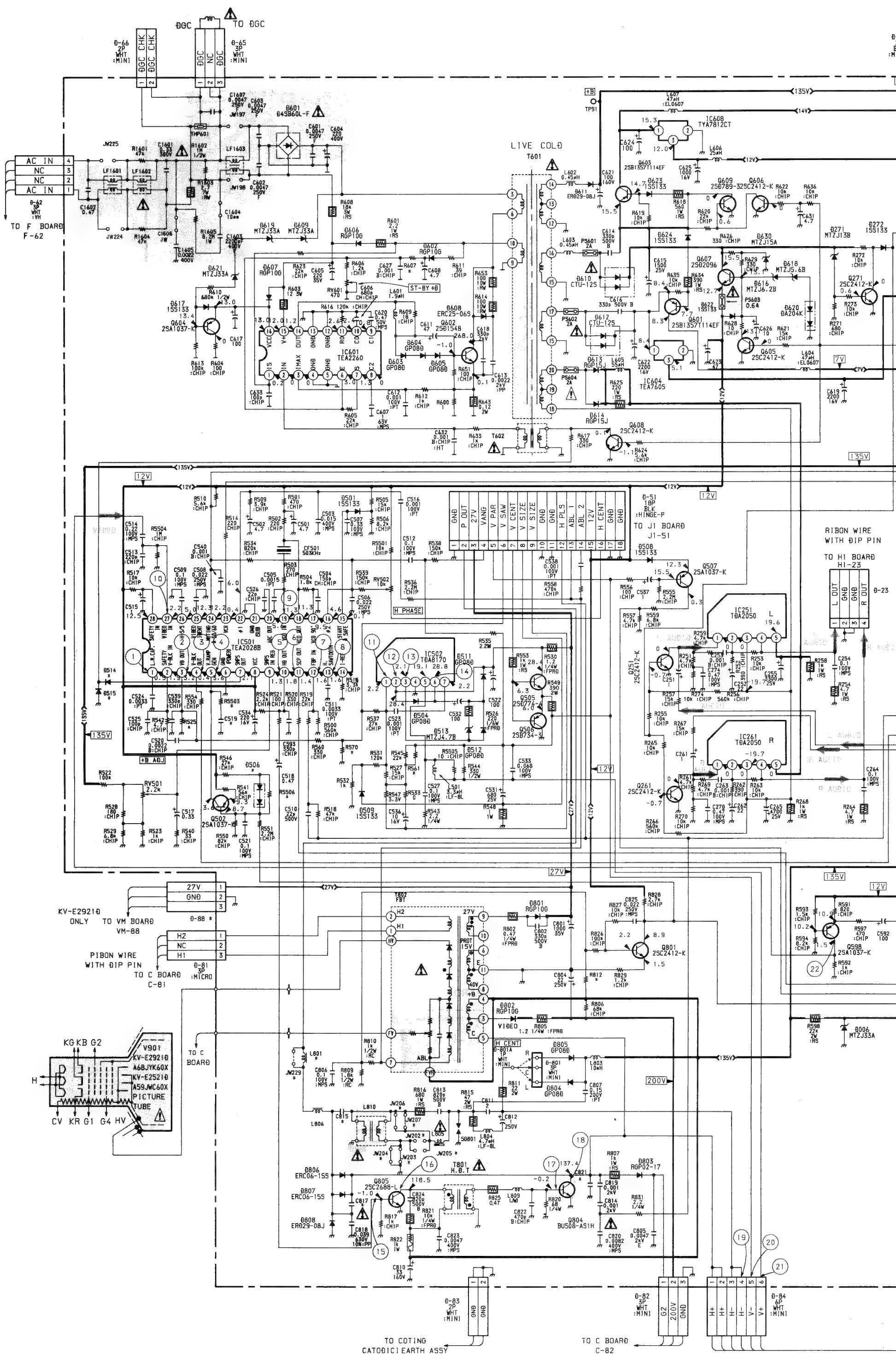


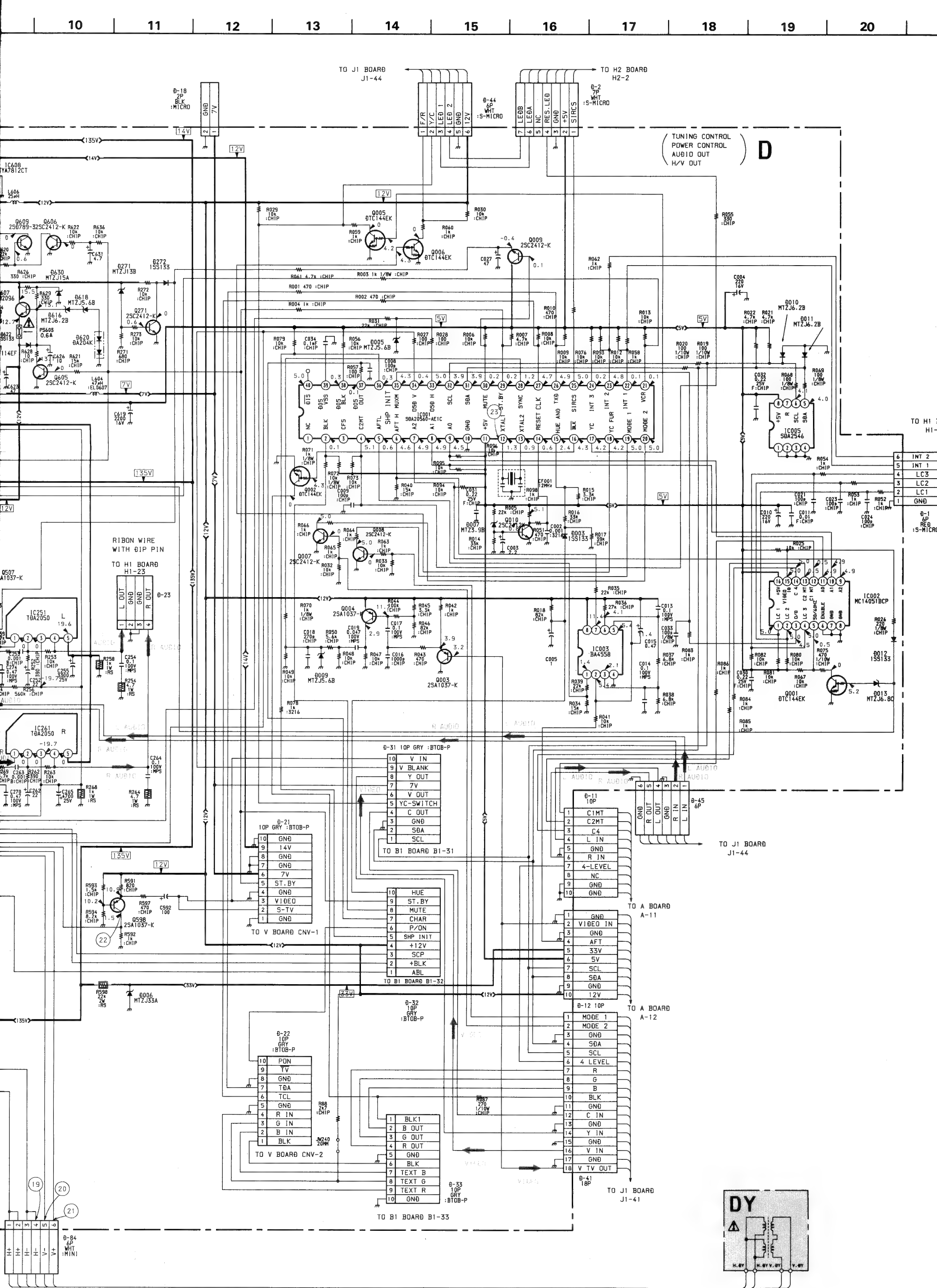
B1 BOARD IC303 TDA4660T

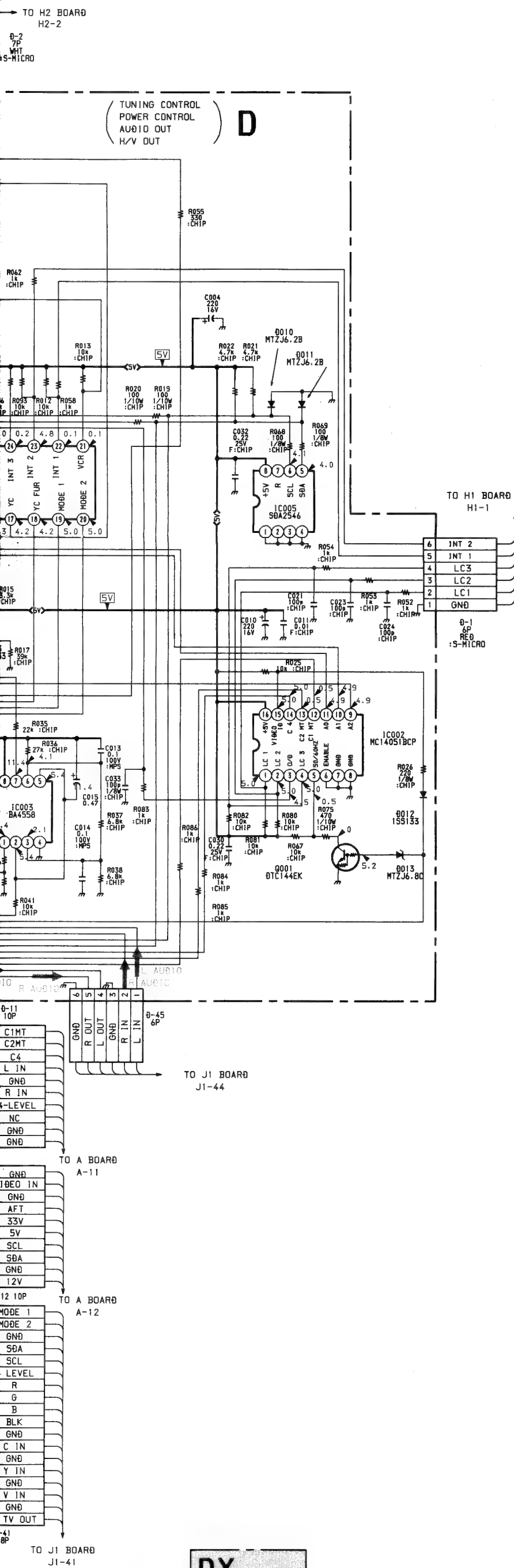


1 2 3 4 5 6 7 8 9 10 11

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

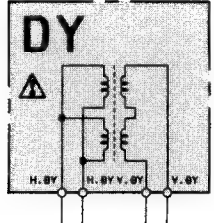






D BOARD

IC001	SDA20560	TUNING CTL
IC002	MC14051BCP	ON SCREEN DISPLAY
IC003	BA4558	AFT COMPARATOR
IC005	SDA2546	MY MEMORY
IC251	TDA2050	AUDIO OUT (L)
IC261	TDA2050	AUDIO OUT (R)
IC501	TEA2028B	DEFLECTION PROCESSOR
IC502	TDA8170	V OUT
IC601	TEA2260	PRIMARY SMRS CTL
IC604	TEA7605	+5V REG
IC608	TYA7812CT	+12V REG
Q001	DTC144EK	50/60Hz SW
Q002	DTA144EK	REG SW
Q003	2SA1037-K	SYNC SEPARATOR
Q004	2SA1037-K	SYNC SEPARATOR
Q005	DTC144EK	Y/C SW
Q006	DTC144EK	FRONT/REAR SW
Q007	2SC2412-K	MODE 2 SWITCH
Q008	2SC2412-K	MODE 1 SWITCH
Q009	2SC2412-K	MUTE SW
Q010	2SC2412-K	RESET
Q251	2SC2412-K	AUDIO MUTO
Q261	2SC2412-K	AUDIO MUTO
Q271	2SC2412-K	VOLTAGE DETECT
Q502	2SA1037-K	CONSTANT CURRENT SOURCE
Q505	2SD774	V CENT
Q506	2SB734	V CENT
Q507	2SA1037-K	CANAL +BLK
Q598	2SA1037-K	VIDEO AMP
Q601	2SB1357T114EF	STBY SW
Q602	SD1545	REG OUT
Q603	2SB1357T114EF	STBY SW
Q604	2SA1037-K	FAST ON/OFF
Q605	2SC2412-K	STBY SW
Q606	2SC2412-K	STBY SW
Q607	2SD2096-EF	+12V REG
Q608	2SC2412K	STBY SW
Q609	2SB789-3	STBY SW
Q801	2SC2412-K	ABL AMP
Q804	BU508	H OUT
Q805	2SC2688	H DRIVER
D003	1SS133	HUE CTL
D005	MTZJ5.6B	PROT
D006	MTZJ33A	VC VOLTAGE REGULATION
D007	MTZJ3.9B	PLOT RESET
D009	MTZJ5.6B	CLIPPING SYNC LEVEL
D010	MTZJ6.2B	PROT
D011	MTZJ6.2B	PROT
D012	1SS133	PROT
D013	MTZJ6.8C	PROT
D271	MTZJ13B	VOLTAGE DETECT
D272	1SS133	DECOUPING MUTE AUDIO
D501	1SS133	START
D504	GP080PKG23	V PULSE OUT
D506	DA204K	CURRENT (KV-E2521B ONLY)
D508	1SS133	CANAL +BLK LEVEL
D509	1SS133	V LIN
D511	GP080PKG23	PROT
D512	GP080PKG23	PROT
D513	MTZJ4.7B	PROT
D514	1SS133	PROT (KV-E2921B ONLY)
D515	1SS133	PROT (KV-E2921B ONLY)
D601	D4SB60L-F	AC RECT
D602	RGP106PKG23	REF RECT
D603	GP080PKG23	SMPS DRIVE 1
D604	GP080PKG23	SMPS DRIVE 2
D605	GP080PKG23	SMPS DRIVE 3
D606	RGP106PKG23	+12V RECT
D607	RGP106PKG23	REF RECT
D608	ERC25-06S	PLUSE CLIPPER
D609	MTZJ33A	FAST ON/OFF
D610	CTU-12S	+14V RECT
D611	ERD29-08J	+135VRECT
D612	CTU-12S	+7V RECT
D613	RGP15JPKG23	AF V RECT-1
D614	RGP15JPKG23	AF V RECT-2
D616	MTZJ6.2B	+12V REG
D617	1SS133	PROT
D618	MTZJ5.6B	+12V REF
D619	MTZJ33A	FAST ON/OFF-2
D620	DA204K	+12V REF
D621	MTZJ33A	FAST ON/OFF-3
D622	1SS133	PROT
D623	1SS133	DECOUPING STBY
D624	1SS133	DECOUPING DTBY
D630	MTZJ15A	+12V REF
D801	RGP106PKG23	+27V REF
D802	RGP106PKG23	+200V REF
D803	RGP02-17	G2 REF
D804	GP080PKG23	H CENTER-1
D805	GP080PKG23	H CENTER-2
D806	ERC06-15S	H DAMPER-1
D807	ERC06-15S	H DAMPER-2
D808	ERD29-08J	PIN DAMPER



BOARD

A20560	TUNING CTL
A4051BCP	ON SCREEN DISPLAY
A4558	AFT COMPARE
A2546	MY MEMORY
A2050	AUDIO OUT (L)
A2050	AUDIO OUT (R)
A2028B	DEFLECTION PROCESSOR
A8170	V OUT
A2260	PRIMARY SMRS CTL
A7605	+5V REG
A7812CT	+12V REG
C144EK	50/60Hz SW
A144EK	REG SW
A1037-K	SYNC SEPARATOR
A1037-K	SYNC SEPARATOR
C144EK	Y/C SW
C144EK	FRONT/REAR SW
C2412-K	MODE 2 SWITCH
C2412-K	MODE 1 SWITCH
C2412-K	MUTE SW
C2412-K	RESET
C2412-K	AUDIO MUTE
C2412-K	AUDIO MUTE
C2412-K	VOLTAGE DETECT
A1037-K	CONSTANT CURRENT SOURCE
B774	V CENT
B734	V CENT
A1037-K	CANAL +BLK
A1037-K	VIDEO AMP
B1357T114EF	STBY SW
A1545	REG OUT
B1357T114EF	STBY SW
A1037-K	FAST ON/OFF
C2412-K	STBY SW
C2412-K	STBY SW
B2096-EF	+12V REG
C2412K	STBY SW
B789-3	STBY SW
C2412-K	ABL AMP
B508	H OUT
C2688	H DRIVER
SS133	HUE CTL
TZJ5.6B	PROT
TZJ33A	VC VOLTAGE REGULATION
TZJ3.9B	PLOT RESET
TZJ5.6B	CLIPPING SYNC LEVEL
TZJ6.2B	PROT
TZJ6.2B	PROT
SS133	PROT
TZJ6.8C	PROT
TZJ13B	VOLTAGE DETECT
SS133	DECOUPLING MUTE AUDIO
SS133	START
P080PKG23	V PULSE OUT
A204K	CURRENT (KV-E2521D ONLY)
SS133	CANAL +BLK LEVEL
SS133	V LIN
P080PKG23	PROT
P080PKG23	PROT
TZJ4.7B	PROT
SS133	PROT (KV-E2921D ONLY)
SS133	PROT (KV-E2921D ONLY)
45B60L-F	AC RECT
GP106PKG23	REF RECT
P080PKG23	SMPS DRIVE 1
P080PKG23	SMPS DRIVE 2
P080PKG23	SMPS DRIVE 3
GP106PKG23	+12V RECT
GP106PKG23	REF RECT
RC25-065	PLUSE CLIPPER
TZJ33A	FAST ON/OFF
TU-12S	+14V RECT
R029-08J	+135VRECT
TU-12S	+7V RECT
GP15JPKG23	AF V RECT-1
GP15JPKG23	AF V RECT-2
TZJ6.2B	+12V REG
SS133	PROT
TZJ5.6B	+12V REF
TZJ33A	FAST ON/OFF-2
A204K	+12V REF
TZJ33A	FAST ON/OFF-3
SS133	PROT
SS133	DECOUPLING STBY
SS133	DECOUPLING DTBY
TZJ15A	+12V REF
GP106PKG23	+27V REF
GP106PKG23	+200V REF
GP02-17	G2 REF
P080PKG23	H CENTER-1
P080PKG23	H CENTER-2
RC06-15S	H DAMPER-1
RC06-15S	H DAMPER-2
R029-08J	PIN DAMPER

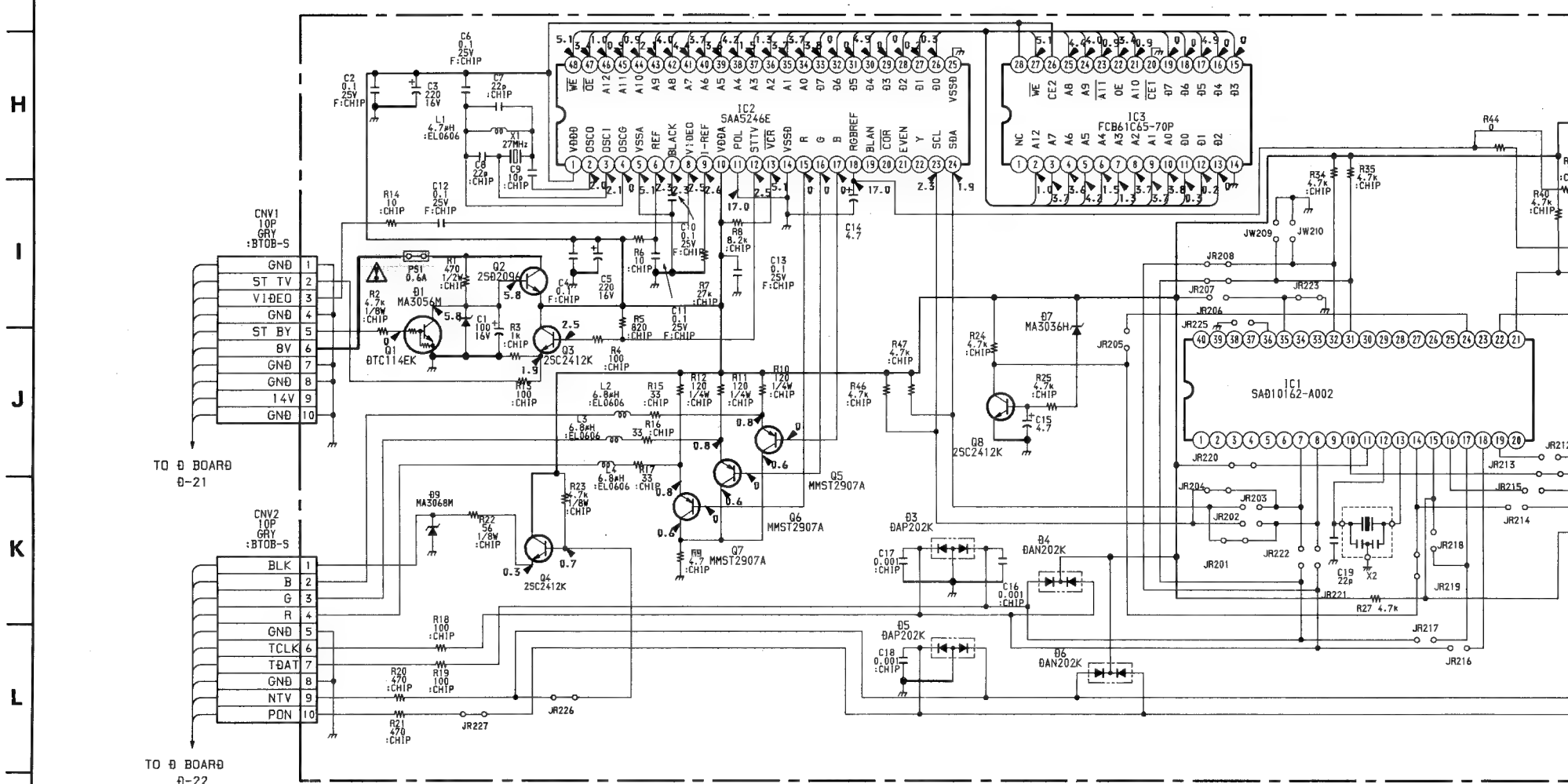
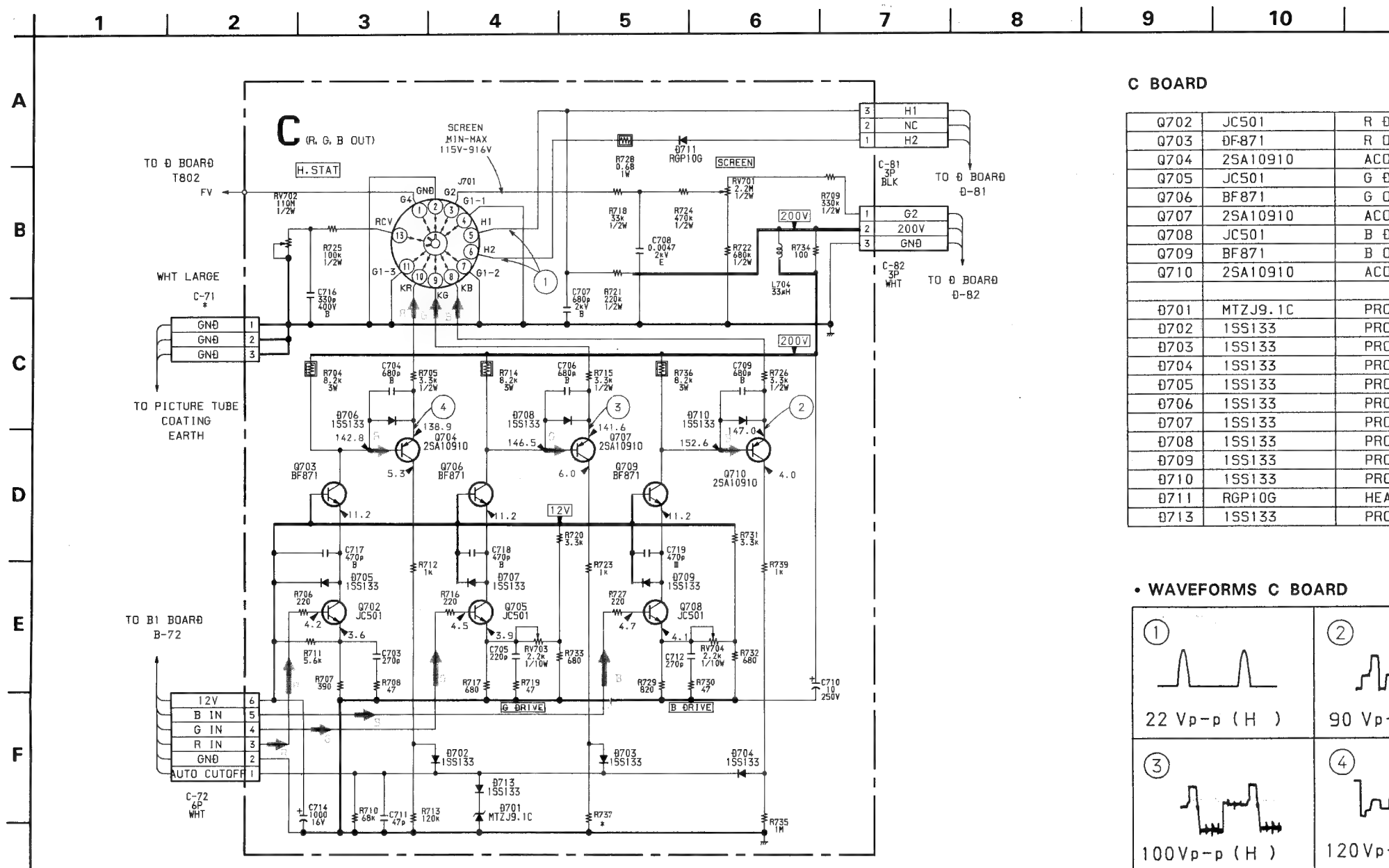
• WAVEFORMS D BOARD

① 1.2Vp-p (H)	② 4.0Vp-p (V)	③ 4.8Vp-p (V)
④ 4.0Vp-p (V)	⑤ 4.0Vp-p (H)	⑥ 11.0Vp-p (H)
⑦ 14.0Vp-p (H)	⑧ 3.6Vp-p (H)	⑨ 0.1Vp-p (503KHz)
⑩ 1.4Vp-p (H)	⑪ 0.7Vp-p (V)	⑫ 2.2Vp-p (V)
⑬ 29.0Vp-p (V)	⑭ 48.0Vp-p (V)	⑮ 3.2Vp-p (H)
⑯ 250Vp-p (H)	⑰ 16.0Vp-p (H)	⑱ 900Vp-p (H)
⑲ 180Vp-p (H)	⑳ 7.0Vp-p (V)	㉑ 48.0Vp-p (V)
㉒ 1.4Vp-p (H)	㉓ 2.8Vp-p (12MHz)	

D BOARD *MARK

	KV-E2521D	KV-E2921D
C519	0.47MF	0.33MF
C815	1MF	0.82MF
C817	0.015MF	0.017MF
C821	680P 2K	470P 2K
B506	DA204K	-
B514	JW	1SS133
B515	-	1SS133
B-88	-	3P
JW202	-	X
JW203	X	-
JW204	X	-
JW205	-	X
JW206	X	-
JW207	X	-
JW229	X	-
JW216	X	-
L801	-	3.9MMH
R525	1K	-
R561	-	270K
R570	-	680
R607	4.7K	5.6K
R812	68K	51K
R5503	4.7	10
R5506	-	12K

— NOT MOUNTED
× TO BE MOUNTED



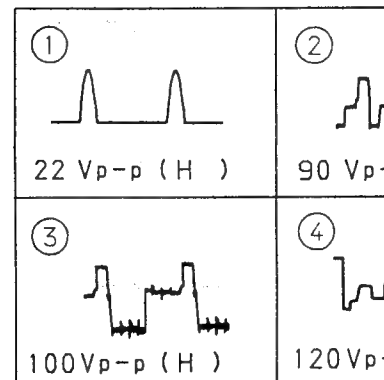
V BOARD

IC1	SBA20162-A002	MICRO-CONT
IC2	SAA5246E	IVT
IC3	FCB61C65-70P	STATIC-RAM
Q1	ØTC114EK	STANØ BY
Q2	2SØ2096	5V REG
Q3	2SC2412K	SYNC BUFFER
Q4	2SC2712K	BLK OUT
Q5	MMST2907A	B OUT
Q6	MMST2907A	G OUT
Q7	MMST2907A	R OUT
Q8	2SC2412K	PØN SW
Ø1	MA3Ø56M	5V REG
Ø3	ØAP202K	PROTECT
Ø4	ØAN202K	PROTECT
Ø5	ØAP202K	PROTECT
Ø6	ØAN202K	PROTECT
Ø7	MA3Ø36H	PROTECT
Ø9	MA3Ø68M	PROTECT

C BOARD

Q702	JC501	R D
Q703	ØF871	R D
Q704	2SA10910	ACC
Q705	JC501	G Ø
Q706	BF871	G Ø
Q707	2SA10910	ACC
Q708	JC501	B Ø
Q709	BF871	B Ø
Q710	2SA10910	ACC
Ø701	MTZJ9.1C	PRO
Ø702	1SS133	PRO
Ø703	1SS133	PRO
Ø704	1SS133	PRO
Ø705	1SS133	PRO
Ø706	1SS133	PRO
Ø707	1SS133	PRO
Ø708	1SS133	PRO
Ø709	1SS133	PRO
Ø710	1SS133	PRO
Ø711	RGP10G	HEA
Ø713	1SS133	PRO

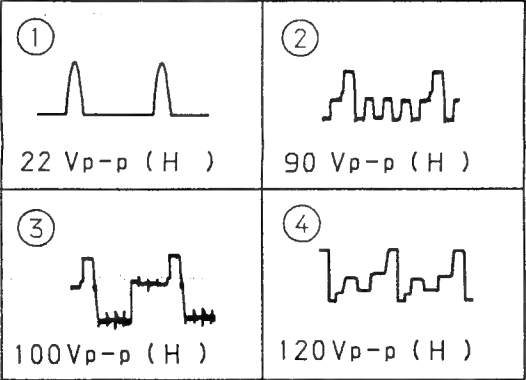
• WAVEFORMS C BOARD



C BOARD

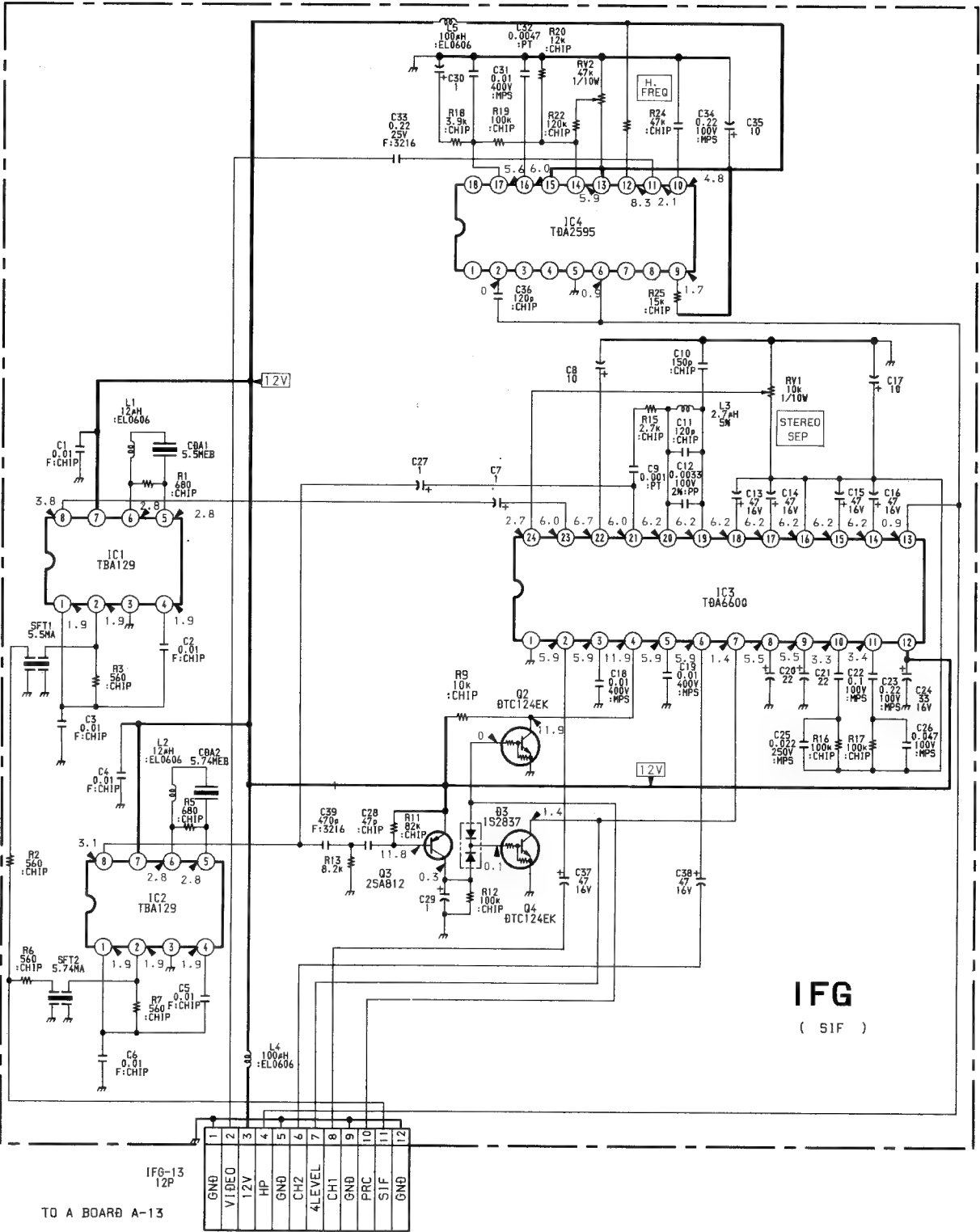
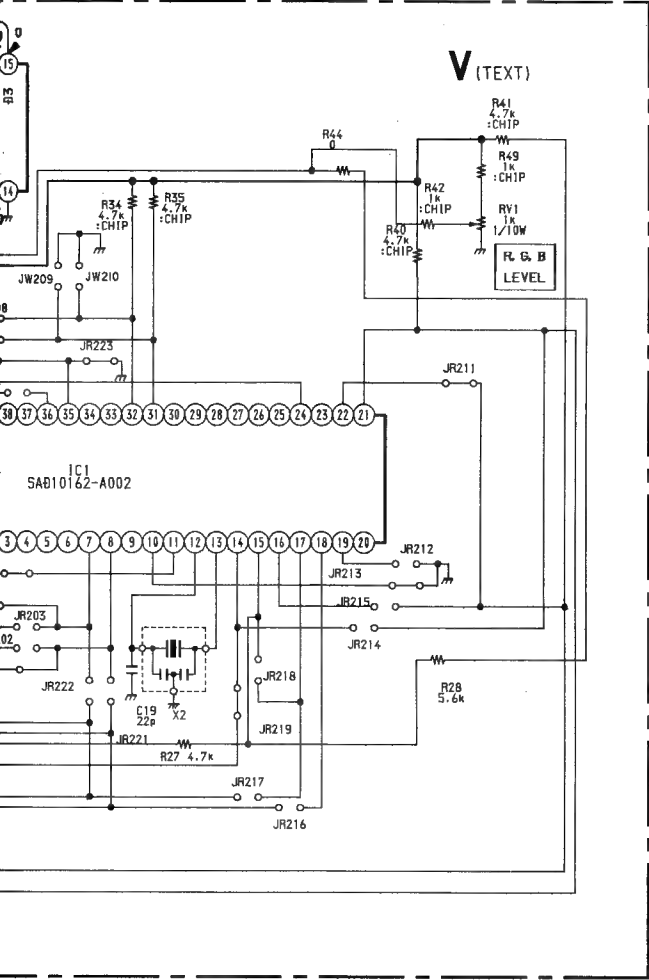
Q702	JC501	R DRIVE
Q703	BF871	R OUT
Q704	2SA10910	ACD MEASURING
Q705	JC501	G DRIVE
Q706	BF871	G OUT
Q707	2SA10910	ACD MEASURING
Q708	JC501	B DRIVE
Q709	BF871	B OUT
Q710	2SA10910	ACD MEASURING
Ø701	MTZJ9.1C	PROTECT
Ø702	1SS133	PROTECT
Ø703	1SS133	PROTECT
Ø704	1SS133	PROTECT
Ø705	1SS133	PROTECT
Ø706	1SS133	PROTECT
Ø707	1SS133	PROTECT
Ø708	1SS133	PROTECT
Ø709	1SS133	PROTECT
Ø710	1SS133	PROTECT
Ø711	RGP10G	HEATING VOLTAGE REC
Ø713	1SS133	PROTECT

• WAVEFORMS C BOARD

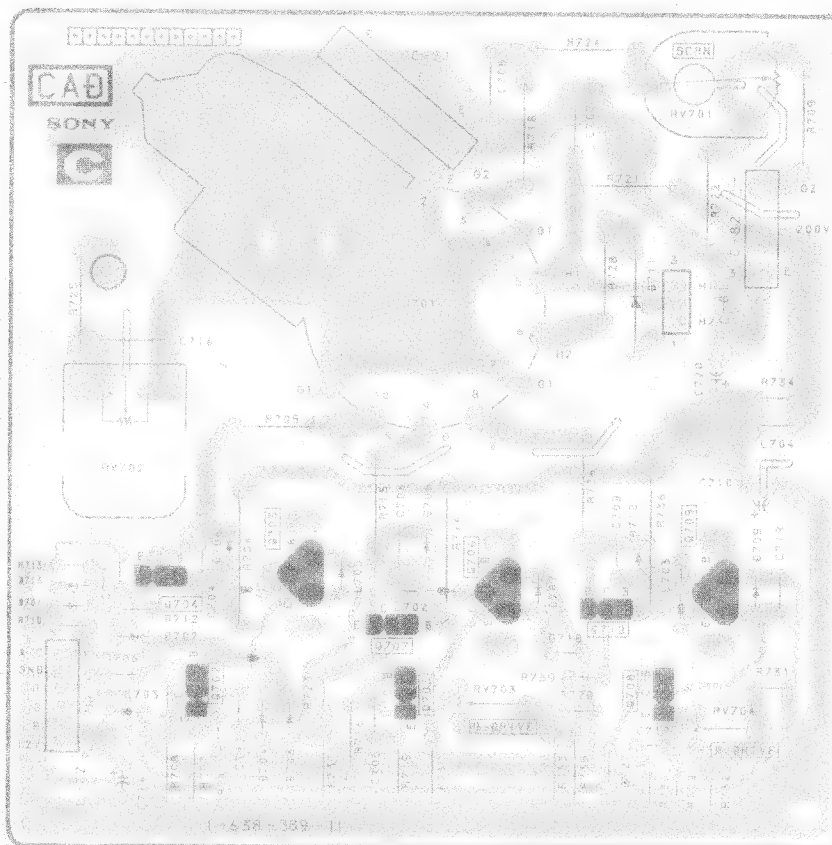


C BOARD *MARK

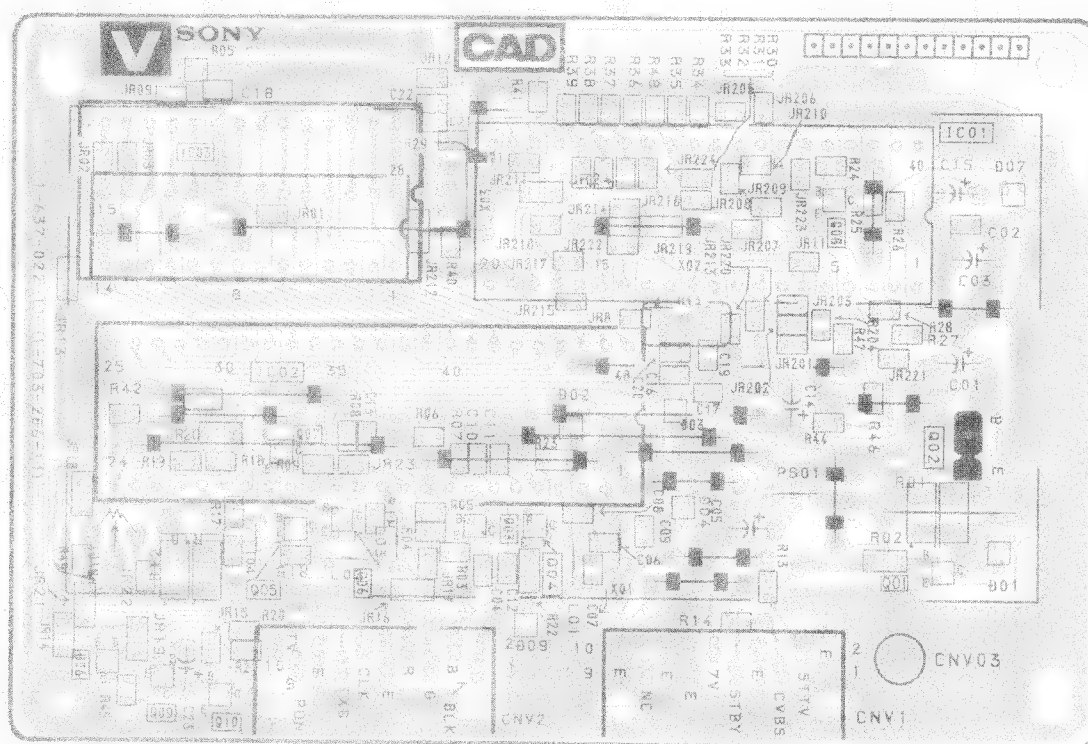
	KV-E2521Ø	KV-E2921Ø
C-71	2P	3P
R737	820K	470K



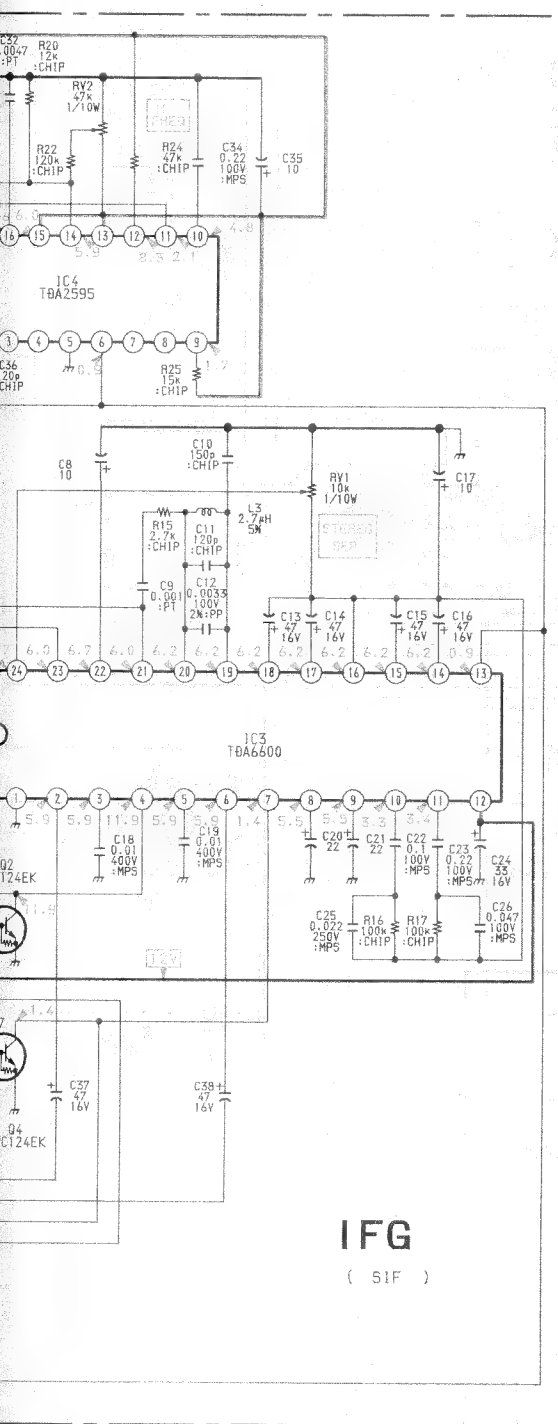
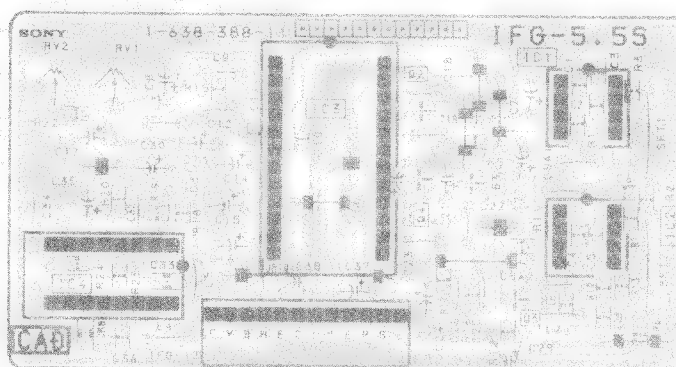
—C BOARD—



—V BOARD—

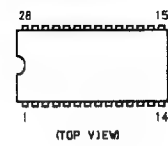


—IFG BOARD—

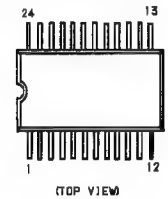


5-4. SEMICONDUCTORS

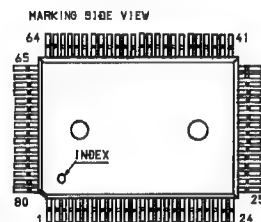
CXA1114P
SBA20162-A002
TDA4580-V6
TDA6200
TEA2028B



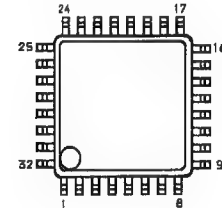
CXD1175AM
CXD1175M-T5



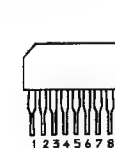
CXD2011Q
CXK1202Q-T4



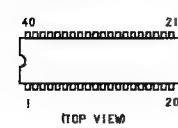
CXK-1202Q



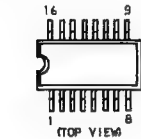
CX20061



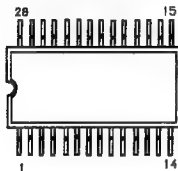
FCB61C65-70P
SBA20560-AE1C



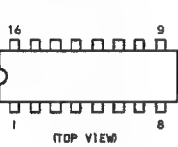
HCF4052BM



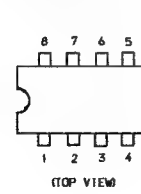
MB40968PF



MC14053BCP
PCF8574
TC4051BPHB
TDA4660T
TDA8442-N3
TEA2260
μPD4053BC



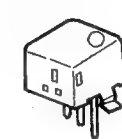
RC4558P
SBA2546
TEA2014A
TEA2031A



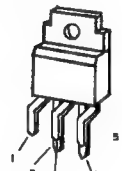
SAA5246E



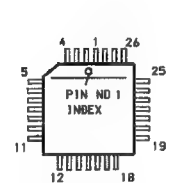
SBX1610-11



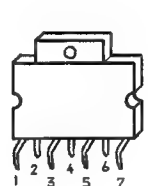
TDA2050



TDA4650WP



TDA8170



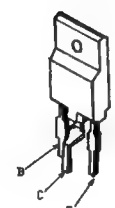
TEA7605
TYA7812CT
μPC24M05HF



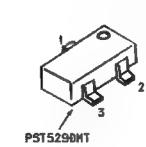
BF871



BU508AS1



DTA144EK
DTC114EK
DTC124EK
DTC144EK
2SA1162G
2SB1295-UL6
2SC2412K
2SC2412K-QR
2SC2412K-R



PST5290MT



DTC144ES



2SA1091-X



2SA1220A-P
2SD789-3TZ
2SD789-34



2SB734-34
2SD774-34



2SC2688-LK



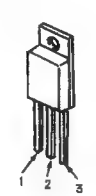
2SC2785-HFE



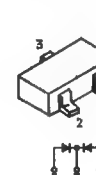
2SD2096-EF



CTU-12S



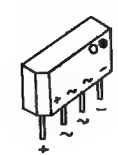
DAN212K
DAN212K-T146
MA152WK



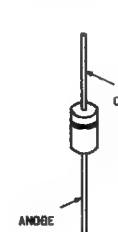
DAP202K
EGP20G
1S2836



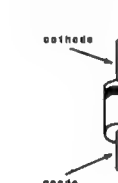
Ø4SB60L-F



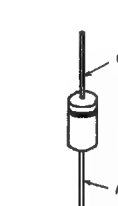
ERC06-15S
RU-3AM



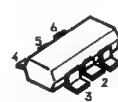
ERØ29-Ø8J



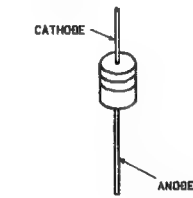
ES1F



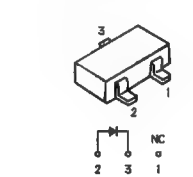
1MN10



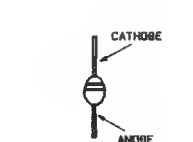
HZS36NB4
MTZJ-T-77-13B
MTZJ-T-77-15A
MTZJ-T-77-33A
MTZJ-T-77-6.2B
MTZJ-T-77-10C
MTZJ-13B
MTZJ-15A
MTZJ-3.9
MTZJ-33A
MTZJ-6.2B
MTZJN-10C
RØ5.6ESB2
RØ6.8ESB2
RØ7.5ESB2
RØ9.1ESB3
VZ4.7BSC
1SS119



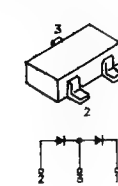
MA3056
MA3056-H
MA3110M-TX
RØ11M-B2
RØ3.6M-B2
RØ5.6M-B2
RØ6.8M-B2



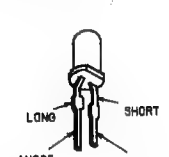
U05G



1SS226



LØ-201VR



SECTION 6
EXPLODED VIEWS

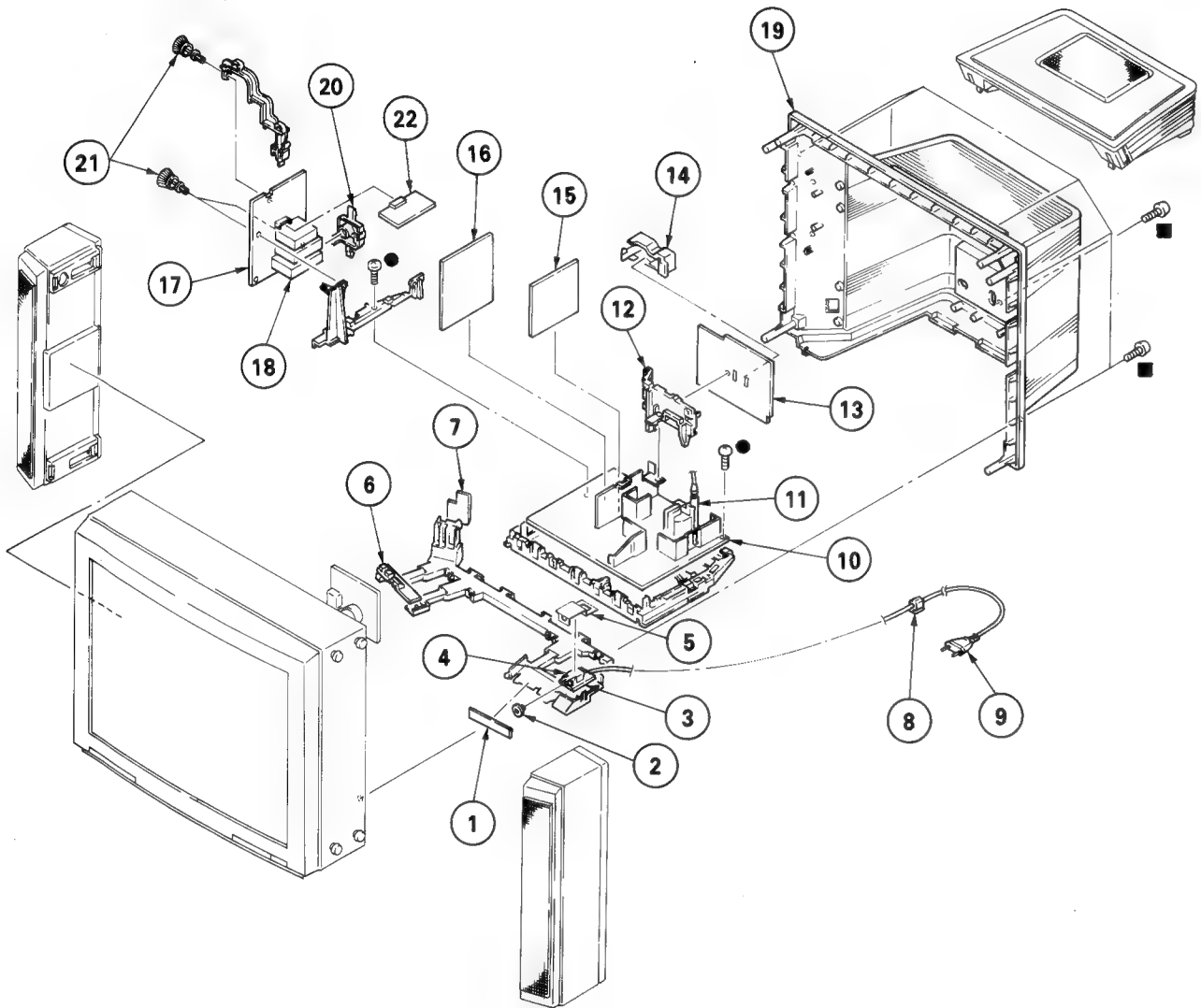
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

(1) CHASSIS

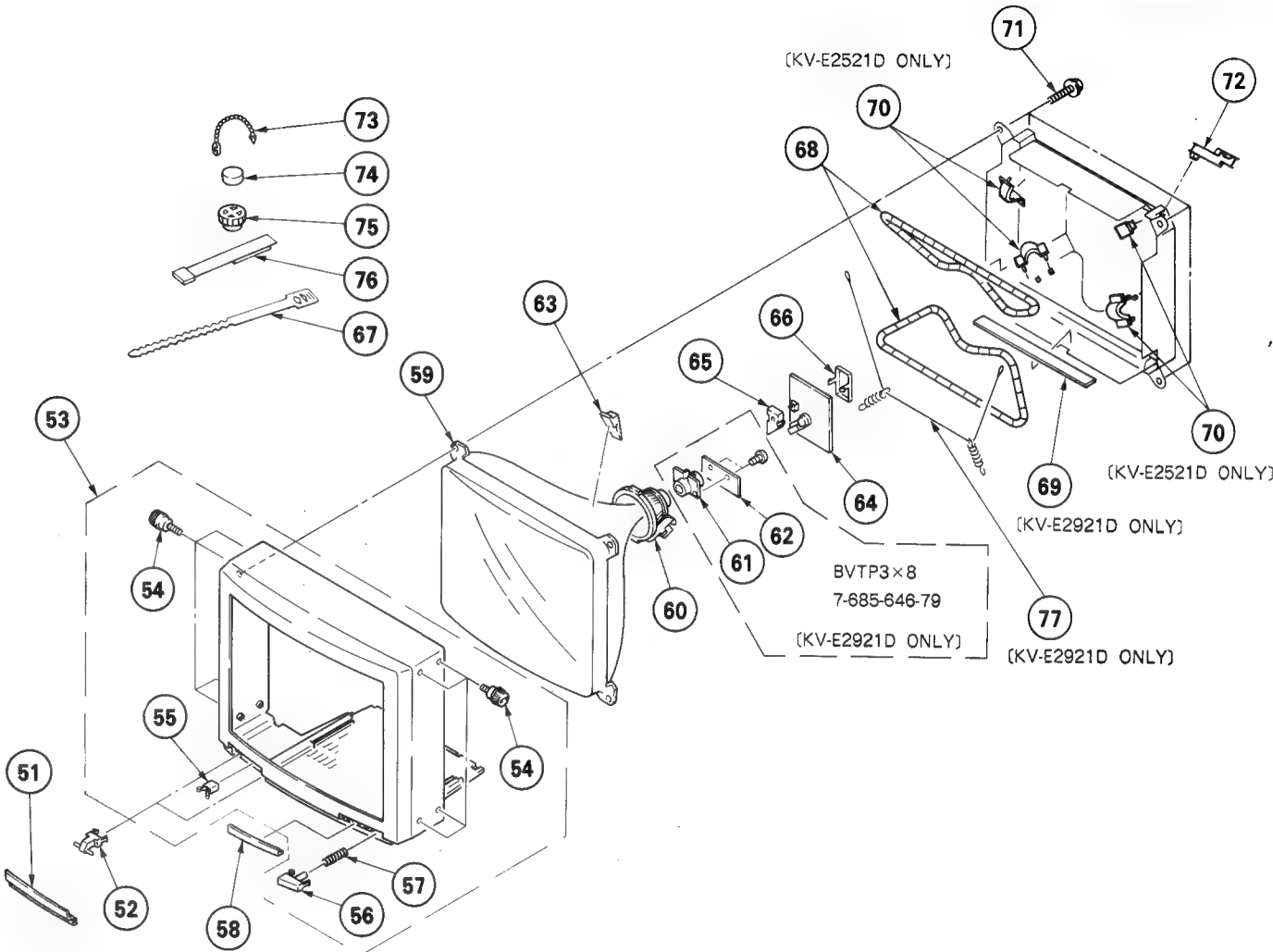
- : BVTP3×12 7-685-648-79
- : BVTP4×16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-638-392-11	H2 BOARD		12	*4-386-624-11	BRACKET, J	
2	4-201-011-01	CAP, SWITCH (KV-E2521D ONLY)		13	A-1651-018-A	J1 BOARD, COMPLETE (KV-E2521D ONLY)	
3	4-386-611-01	COVER, SWITCH (KV-E2921D ONLY)		14	A-1651-020-A	J1 BOARD, COMPLETE (KV-E2921D ONLY)	
4	*1-638-390-11	F BOARD		15	4-200-014-01	BRACKET, TERMINAL	
5	▲1-571-433-11	SWITCH, PUSH (AC POWER)		16	A-1645-013-A	V BOARD, COMPLETE	
6	4-200-274-01	COVER, POWER SWITCH		17	A-1621-013-A	B1 BOARD, COMPLETE (KV-E2521D ONLY)	
7	*1-638-391-11	H1 BOARD		18	A-1621-015-A	B1 BOARD, COMPLETE (KV-E2921D ONLY)	
8	*1-638-393-11	J2 BOARD		19	A-1632-022-A	A BOARD, COMPLETE	
9	▲4-389-201-02	HOLDER, AC CORD		20	▲1-465-301-11	TUNER, ET (UV-816(PLL))	
10	▲1-590-501-11	CORD, POWER(WITH NOISE FILTER)		21	4-201-017-02	COVER, REAR (KV-E2521D ONLY)	
11	A-1642-031-A	D BOARD, COMPLETE (KV-E2521D ONLY)		22	4-200-026-04	COVER, REAR (KV-E2921D ONLY)	
	A-1642-032-A	D BOARD, COMPLETE (KV-E2921D ONLY)			*4-386-617-01	HOLDER, TERMINAL	
	▲1-439-416-11	TRANSFORMER ASSY, FLYBACK (UX-1600)			4-386-618-01	RIVET, T TYPE	
					A-1654-004-A	IFG BOARD, COMPLETE	

(2) PICTURE TUBE

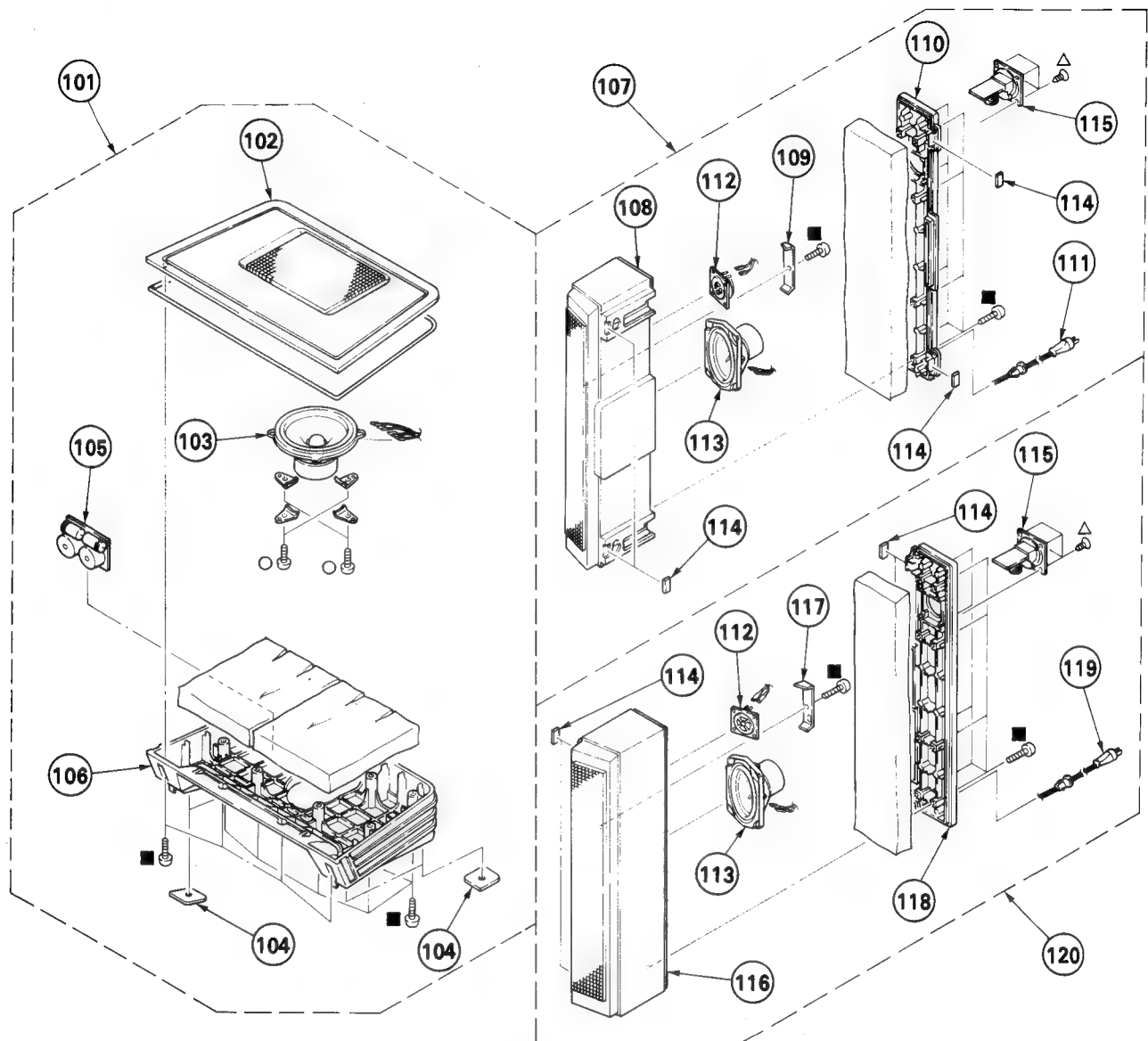
The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4201-006-5	DOOR ASSY, CONTROL (KV-E2521D ONLY)		62	*1-634-193-11	VM BOARD (KV-E2921D ONLY)	
52	X-4200-001-5	LID ASSY, CONTROL (KV-E2921D ONLY)		63	3-704-495-01	SPACER, DY	
53	3-703-035-11	SHAFT, LID		64	*A-1638-011-A	C BOARD, COMPLETE (KV-E2521D ONLY)	
	X-4201-005-5	CABINET ASSY (WITH BEZEL ASSY) (KV-E2521D ONLY)	54-57	65	*A-1638-013-A	C BOARD, COMPLETE (KV-E2921D ONLY)	
	X-4200-008-8	CABINET ASSY (WITH BEZEL ASSY) (KV-E2921D ONLY)	54-57	66	*4-379-167-01	COVER (MAIN), CV	
54	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL		67	*4-379-160-01	COVER (REAR LID), CV	
55	4-392-036-01	CATCHER, PUSH		68	3-701-007-00	BAND, BINDING	
56	4-200-013-01	BUTTON, POWER		69	▲1-460-091-11	COIL, DEGAUSS (KV-E2521D ONLY)	
57	4-329-112-21	SPRING		70	▲1-426-398-11	COIL, DEMAGNETIZATION (KV-E2921D ONLY)	
58	4-200-017-02	WINDOW, ORNAMENTAL		71	4-389-291-01	CUSHION (KV-E2921D ONLY)	
59	▲8-733-224-05	PICTURE TUBE (A59JWC60X) (KV-E2521D ONLY)		72	*4-385-916-01	HOLDER (D) (KV-E2521D ONLY)	
60	▲8-733-824-05	PICTURE TUBE (A68JYK60X) (KV-E2921D ONLY)		73	4-373-263-01	SCREW (M), PT	
61	▲1-451-311-21	DEFLECTION YOE (Y25FXA) (KV-E2521D ONLY)		74	*4-387-216-01	HOLDER, LEAD	
	▲1-451-313-21	DEFLECTION YOKE (Y29FXA) (KV-E2921D ONLY)		75	4-308-870-00	CLIP, LEAD WIRE	
	▲1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308) (KV-E2921D ONLY)		76	1-452-032-00	MAGNET, DISK; 10MM ϕ	
				77	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
					X-4387-214-1	PERMALLOY ASSY, CORRECTION	
					4-369-318-00	SPRING, TENSION (KV-E2921D ONLY)	

(3) SPEAKER

- : BVTP4×16 7-685-663-79
 ○ : BVTP4×10 7-685-660-79
 △ : KTP3×12 7-685-248-19



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	*A-1678-001-A	BOX ASSY, WOOFER		102-106	111	CORD, SPEAKER (WITH PLUG)	
102	X-4200-004-2	BOARD ASSY, BAFFLE			112	SPEAKER	
103	1-544-192-11	SPEAKER			113	SPEAKER	
104	4-200-009-01	CUSHION, FOOT			114	CUSHION, FOOT	
105	1-236-549-11	NETWORK, DIVIDING			115	NETWORK, DIVIDING	
106	4-200-027-01	BOX, WOOFER			116	X-4201-004-1	BOX ASSY (RIGHT), SIDE (KV-E2521D ONLY)
107	*A-1678-012-A	BOX ASSY (LEFT), SPEAKER	108-115		X-4200-005-1	BOX ASSY (R), SIDE (KV-E2921D ONLY)	
		(KV-E2521D ONLY)			117	*4-200-004-02	BRACKET (R), SPEAKER
	*A-1678-005-A	BOX ASSY (LEFT), SPEAKER	108-115		118	4-201-006-01	PANEL (RIGHT), REAR (KV-E2521D ONLY)
		(KV-E2921D ONLY)			119	4-200-029-01	PANEL (R), REAR (KV-E2921D ONLY)
108	X-4201-003-1	BOX ASSY (LEFT), SIDE (KV-E2521D ONLY)			120	1-575-024-11	CORD, SPEAKER (WITH PLUG)
	X-4200-006-1	BOX ASSY (L), SIDE (KV-E2921D ONLY)				*A-1678-010-A	BOX ASSY (RIGHT), SPEAKER
109	*4-200-003-02	BRACKET (L), SPEAKER					112-119
110	4-201-007-01	PANEL (LEFT), REAR (KV-E2521D ONLY)					(KV-E2521D ONLY)
	4-200-030-01	PANEL (L), REAR (KV-E2921D ONLY)				*A-1678-003-A	BOX ASSY (RIGHT), SPEAKER
							112-119
							(KV-E2921D ONLY)

B1

SECTION 7 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark **△** are critical for safety.
Replace only with part number specified.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS

• MF : μ F, PF : μ F

COILS

• MMH : mH, UH : μ H

RESISTORS

• All resistors are in ohms
• F : nonflammable

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
A-1621-013-A	B1 BOARD, COMPLETE (KV-E2521D ONLY)	*****		C344	1-124-791-11	ELECT 1MF	20% 50V
A-1621-015-A	B1 BOARD, COMPLETE (KV-E2921D ONLY)	*****		C345	1-137-094-11	FILM 0.047MF	10% 100V
*1-565-393-11	CONNECTOR, BOARD TO BOARD			C346	1-137-033-11	FILM 0.33MF	10% 100V
*1-568-878-51	PIN, CONNECTOR 3P (KV-E2921D ONLY)			C347	1-137-098-11	FILM 0.1MF	10% 100V
*1-568-881-51	PIN, CONNECTOR 6P			C348	1-137-102-11	FILM 0.022MF	10% 250V
<CAPACITOR>				C349	1-137-102-11	FILM 0.022MF	10% 250V
C301	1-137-031-11	FILM 0.22MF	10% 100V	C350	1-124-902-00	ELECT 0.47MF	20% 50V
C302	1-137-031-11	FILM 0.22MF	10% 100V	C351	1-137-102-11	FILM 0.022MF	10% 250V
C303	1-124-122-11	ELECT 100MF	20% 50V	C352	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C304	1-137-031-11	FILM 0.22MF	10% 100V	C353	1-126-101-11	ELECT 100MF	20% 16V
C305	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C354	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C306	1-124-902-00	ELECT 0.47MF	20% 50V	C355	1-126-101-11	ELECT 100MF	20% 16V
C307	1-124-902-00	ELECT 0.47MF	20% 50V	C357	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C308	1-124-902-00	ELECT 0.47MF	20% 50V	C358	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C309	1-124-902-00	ELECT 0.47MF	20% 50V	C360	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C310	1-137-098-11	FILM 0.1MF	10% 100V	C361	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C311	1-137-098-11	FILM 0.1MF	10% 100V	C363	1-163-033-00	CERAMIC CHIP 0.022MF	50V
C312	1-124-902-00	ELECT 0.47MF	20% 50V	C371	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C313	1-124-902-00	ELECT 0.47MF	20% 50V	C372	1-124-477-11	ELECT 47MF	20% 16V
C314	1-124-902-00	ELECT 0.47MF	20% 50V	C373	1-124-477-11	ELECT 47MF	20% 16V
C315	1-124-791-11	ELECT 1MF	20% 50V	C374	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C316	1-124-927-11	ELECT 4.7MF	20% 50V	C375	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C317	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C376	1-124-034-51	ELECT 33MF	20% 16V
C318	1-124-927-11	ELECT 4.7MF	20% 50V	C377	1-124-119-00	ELECT 330MF	20% 16V
C319	1-124-927-11	ELECT 4.7MF	20% 50V	C378	1-124-034-51	ELECT 33MF	20% 16V
C320	1-124-910-11	ELECT 47MF	20% 50V	C379	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C321	1-137-027-11	FILM 0.82MF	10% 63V	C380	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C322	1-163-077-00	CERAMIC CHIP 0.1MF	50V	C381	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C323	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C382	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C324	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C383	1-163-197-00	CERAMIC CHIP 470PF	5% 50V
C325	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C384	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C326	1-124-910-11	ELECT 47MF	20% 50V	C385	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C327	1-124-910-11	ELECT 47MF	20% 50V	C386	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C328	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C387	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C329	1-163-123-00	CERAMIC CHIP 180PF	5% 50V	C388	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C330	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C389	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C331	1-137-098-11	FILM 0.1MF	10% 100V	C390	1-123-875-11	ELECT 10MF	20% 50V
C332	1-137-098-11	FILM 0.1MF	10% 100V	C391	1-123-875-11	ELECT 10MF	20% 50V
C333	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	C392	1-123-875-11	ELECT 10MF	20% 50V
C335	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	C393	1-126-101-11	ELECT 100MF	20% 16V
C337	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	C394	1-126-101-11	ELECT 100MF	20% 16V
C338	1-137-102-11	FILM 0.022MF	10% 250V	C395	1-126-101-11	ELECT 100MF	20% 16V
C339	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C396	1-126-101-11	ELECT 100MF	20% 16V
C340	1-126-103-11	ELECT 470MF	20% 16V	C397	1-124-791-11	ELECT 1MF	20% 50V
C341	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C398	1-123-875-11	ELECT 10MF	20% 50V
C342	1-124-791-11	ELECT 1MF	20% 50V	C399	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C343	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1301	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
				C1302	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
				C1303	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1304	1-123-875-11	ELECT 10MF	20% 50V
				C1305	1-126-101-11	ELECT 100MF	20% 16V

B1

— 67 —

B1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q329	8-729-216-22	TRANSISTOR 2SA1162-G		R312	1-216-019-00	METAL GLAZE 56 5% 1/10W	
Q330	8-729-901-78	TRANSISTOR 2SC2412K-R		R313	1-216-019-00	METAL GLAZE 56 5% 1/10W	
Q331	8-729-216-22	TRANSISTOR 2SA1162-G		R314	1-216-019-00	METAL GLAZE 56 5% 1/10W	
Q332	8-729-216-22	TRANSISTOR 2SA1162-G		R315	1-216-023-00	METAL GLAZE 82 5% 1/10W	
Q333	8-729-901-00	TRANSISTOR DTC124EK		R316	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
Q334	8-729-901-00	TRANSISTOR DTC124EK		R317	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q335	8-729-901-78	TRANSISTOR 2SC2412K-R		R318	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q336	8-729-901-78	TRANSISTOR 2SC2412K-R		R319	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q337	8-729-901-78	TRANSISTOR 2SC2412K-R		R320	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
Q338	8-729-216-22	TRANSISTOR 2SA1162-G		R321	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q339	8-729-901-78	TRANSISTOR 2SC2412K-R		R322	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q340	8-729-901-78	TRANSISTOR 2SC2412K-R		R323	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q341	8-729-901-78	TRANSISTOR 2SC2412K-R		R324	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q342	8-729-901-78	TRANSISTOR 2SC2412K-R		R325	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q343	8-729-901-78	TRANSISTOR 2SC2412K-R		R326	1-216-009-00	METAL GLAZE 22 5% 1/10W	
Q344	8-729-901-78	TRANSISTOR 2SC2412K-R		R327	1-216-009-00	METAL GLAZE 22 5% 1/10W	
Q345	8-729-901-78	TRANSISTOR 2SC2412K-R		R328	1-216-009-00	METAL GLAZE 22 5% 1/10W	
Q346	8-729-901-78	TRANSISTOR 2SC2412K-R		R329	1-216-031-00	METAL GLAZE 180 5% 1/10W	
Q347	8-729-901-78	TRANSISTOR 2SC2412K-R		R330	1-216-031-00	METAL GLAZE 180 5% 1/10W	
Q348	8-729-901-00	TRANSISTOR DTC124EK		R331	1-216-031-00	METAL GLAZE 180 5% 1/10W	
Q350	8-729-901-78	TRANSISTOR 2SC2412K-R		R332	1-216-182-00	METAL GLAZE 220 5% 1/8W	
Q352	8-729-216-22	TRANSISTOR 2SA1162-G		R333	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q353	8-729-901-78	TRANSISTOR 2SC2412K-R		R335	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
Q354	8-729-901-78	TRANSISTOR 2SC2412K-R		R336	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q355	8-729-901-78	TRANSISTOR 2SC2412K-R		R337	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
Q356	8-729-216-22	TRANSISTOR 2SA1162-G		R338	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
Q357	8-729-216-22	TRANSISTOR 2SA1162-G		R339	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
Q358	8-729-901-78	TRANSISTOR 2SC2412K-R		R340	1-216-103-00	METAL GLAZE 180K 5% 1/10W	
Q359	8-729-216-22	TRANSISTOR 2SA1162-G		R341	1-216-115-00	METAL GLAZE 560K 5% 1/10W	
Q360	8-729-901-78	TRANSISTOR 2SC2412K-R		R342	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
Q361	8-729-901-78	TRANSISTOR 2SC2412K-R		R343	1-216-043-00	METAL GLAZE 560 5% 1/10W	(KV-E2521D ONLY)
Q362	8-729-901-78	TRANSISTOR 2SC2412K-R			1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	(KV-E2921D ONLY)
Q363	8-729-901-78	TRANSISTOR 2SC2412K-R		R344	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
Q364	8-729-216-22	TRANSISTOR 2SA1162-G		R345	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
Q365	8-729-216-22	TRANSISTOR 2SA1162-G		R346	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q366	8-729-901-78	TRANSISTOR 2SC2412K-R		R347	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
Q367	8-729-901-78	TRANSISTOR 2SC2412K-R		R348	1-216-001-00	METAL GLAZE 10 5% 1/10W	
Q368	8-729-901-78	TRANSISTOR 2SC2412K-R		R349	1-216-001-00	METAL GLAZE 10 5% 1/10W	
Q369	8-729-901-78	TRANSISTOR 2SC2412K-R		R350	1-216-184-00	METAL GLAZE 270 5% 1/8W	
Q370	8-729-901-78	TRANSISTOR 2SC2412K-R		R351	1-216-184-00	METAL GLAZE 270 5% 1/8W	
Q371	8-729-901-78	TRANSISTOR 2SC2412K-R		R352	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
Q372	8-729-901-78	TRANSISTOR 2SC2412K-R		R353	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q373	8-729-901-00	TRANSISTOR DTC124EK		R354	1-216-037-00	METAL GLAZE 330 5% 1/10W	
Q1301	8-729-901-00	TRANSISTOR DTC124EK		R355	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q1302	8-729-901-78	TRANSISTOR 2SC2412K-R		R356	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q1303	8-729-901-00	TRANSISTOR DTC124EK		R357	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
<RESISTOR>				R358	1-216-037-00	METAL GLAZE 330 5% 1/10W	
JR302	1-216-295-00	METAL GLAZE 0 5% 1/10W		R359	1-216-041-00	METAL GLAZE 470 5% 1/10W	
JR304	1-216-296-00	METAL GLAZE 0 5% 1/8W		R361	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
JR305	1-216-295-00	METAL GLAZE 0 5% 1/10W		R362	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
JR390	1-216-295-00	METAL GLAZE 0 5% 1/10W		R363	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
JR391	1-216-295-00	METAL GLAZE 0 5% 1/10W		R364	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R301	1-216-033-00	METAL GLAZE 220 5% 1/10W		R365	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R302	1-216-033-00	METAL GLAZE 220 5% 1/10W		R366	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R303	1-216-033-00	METAL GLAZE 220 5% 1/10W		R367	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R304	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R368	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R305	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R369	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R306	1-216-035-00	METAL GLAZE 270 5% 1/10W		R370	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R307	1-216-097-00	METAL GLAZE 100K 5% 1/10W		R371	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R309	1-216-025-00	METAL GLAZE 100 5% 1/10W		R372	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R310	1-216-025-00	METAL GLAZE 100 5% 1/10W		R373	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R311	1-216-025-00	METAL GLAZE 100 5% 1/10W					

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R374	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1339	1-216-039-00	METAL GLAZE	390 5% 1/10W
R375	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1340	1-216-025-00	METAL GLAZE	100 5% 1/10W
R376	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1341	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R377	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1342	1-216-025-00	METAL GLAZE	100 5% 1/10W
R378	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1343	1-216-043-00	METAL GLAZE	560 5% 1/10W
R379	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1344	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R380	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1345	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R381	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1346	1-216-025-00	METAL GLAZE	100 5% 1/10W
R382	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1347	1-216-025-00	METAL GLAZE	100 5% 1/10W
R383	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1348	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R384	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1349	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R385	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1350	1-216-039-00	METAL GLAZE	390 5% 1/10W
R386	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1351	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R387	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1352	1-216-041-00	METAL GLAZE	470 5% 1/10W
R388	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1353	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R389	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1354	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R390	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1355	1-216-045-00	METAL GLAZE	680 5% 1/10W
R391	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1356	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R392	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1357	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R393	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1358	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R394	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1359	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R395	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1360	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R396	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1361	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R397	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1362	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R398	1-216-035-00	METAL GLAZE	270 5% 1/10W	R1363	1-216-039-00	METAL GLAZE	390 5% 1/10W
R399	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1364	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R403	1-216-035-00	METAL GLAZE	270 5% 1/10W	R1365	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1301	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1366	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R1302	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1367	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1303	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1368	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1305	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1369	1-216-031-00	METAL GLAZE	180 5% 1/10W
R1308	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1370	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1371	1-216-031-00	METAL GLAZE	180 5% 1/10W
			(KV-E2521D ONLY)	R1372	1-216-047-00	METAL GLAZE	820 5% 1/10W
			(KV-E2921D ONLY)	R1373	1-216-035-00	METAL GLAZE	270 5% 1/10W
R1309	1-216-023-00	METAL GLAZE	82 5% 1/10W	R1374	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
R1310	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1375	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W
R1311	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1376	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1312	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1377	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1313	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1378	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1314	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1379	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1315	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1380	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1316	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1381	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1319	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1382	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1320	1-216-641-11	METAL CHIP	390 0.50% 1/10W	R1383	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1321	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1384	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1322	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1385	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R1323	1-216-643-11	METAL CHIP	470 0.50% 1/10W	R1386	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1324	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1387	1-216-031-00	METAL GLAZE	180 5% 1/10W
R1325	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1388	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1326	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1389	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1327	1-216-029-00	METAL GLAZE	150 5% 1/10W	R1390	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R1328	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1391	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W
R1329	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1392	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1330	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1393	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1331	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1394	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1332	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1395	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1333	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1396	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1334	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1397	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1335	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1398	1-216-001-00	METAL GLAZE	10 5% 1/10W
R1336	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1399	1-216-029-00	METAL GLAZE	150 5% 1/10W
R1337	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W				
R1338	1-216-085-00	METAL GLAZE	33K 5% 1/10W				

B1 F A C

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO. PART NO. DESCRIPTION

<VARIABLE RESISTOR>

RV301 1-238-012-11 RES, ADJ, CARBON 1K

<CRYSTAL>

X301 1-567-307-11 OSCILLATOR, CRYSTAL
X302 1-567-131-00 OSCILLATOR, CRYSTAL

*1-638-390-11 F BOARD

*1-580-690-11 PIN, CONNECTOR (PC BOARD) 4P
*4-341-752-01 EYELET

<FUSE>

F1601 Δ 1-532-504-31 FUSE 4A/250V
1-533-230-11 HOLDER, FUSE; F1601

<SWITCH>

S1701 Δ 1-571-433-11 SWITCH, PUSH (AC POWER)

A-1632-022-A A BOARD, COMPLETE

*1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)
*1-564-881-11 PLUG, CONNECTOR 4P
*1-564-886-11 PLUG, CONNECTOR 9P
*1-565-393-11 CONNECTOR, BOARD TO BOARD
*1-565-503-11 CONNECTOR, BOARD TO BOARD 12P

<CAPACITOR>

Part No.	Description	Value	Tolerance	Voltage
C101	1-126-233-11 ELECT	22MF	20%	50V
C102	1-126-103-11 ELECT	470MF	20%	16V
C104	1-124-910-11 ELECT	47MF	20%	50V
C106	1-126-233-11 ELECT	22MF	20%	50V
C108	1-136-165-00 FILM	0.1MF	5%	50V
C109	1-163-133-00 CERAMIC CHIP	470PF	5%	50V
C111	1-124-925-11 ELECT	2.2MF	20%	50V
C115	1-124-925-11 ELECT	2.2MF	20%	50V
C127	1-124-122-11 ELECT	100MF	20%	50V
C128	1-124-910-11 ELECT	47MF	20%	50V
C129	1-124-910-11 ELECT	47MF	20%	50V
C138	1-136-165-00 FILM	0.1MF	5%	50V
C171	1-163-005-11 CERAMIC CHIP	470PF	10%	50V
C172	1-163-005-11 CERAMIC CHIP	470PF	10%	50V
C177	1-102-074-00 CERAMIC	0.001MF	10%	50V
C181	1-101-004-00 CERAMIC	0.01MF		50V

<IC>

IC103 8-759-979-62 IC PCF8574

<COIL>

Part No.	Description	Value
L100	1-410-683-31 INDUCTOR	560UH
L101	1-408-225-00 INDUCTOR	3.3UH
L102	1-408-413-00 INDUCTOR	22UH
L107	1-408-397-00 INDUCTOR	1UH

REMARK

REF.NO. PART NO.

DESCRIPTION

REMARK

<TRANSISTOR>

Part No.	Description
Q113	8-729-901-78 TRANSISTOR 2SC2412K-R
Q114	8-729-901-78 TRANSISTOR 2SC2412K-R
Q115	8-729-901-78 TRANSISTOR 2SC2412K-R
Q116	8-729-901-78 TRANSISTOR 2SC2412K-R
Q125	8-729-900-89 TRANSISTOR DTC144ES
Q126	8-729-901-06 TRANSISTOR DTA144EK
Q181	8-729-901-78 TRANSISTOR 2SC2412K-R

<RESISTOR>

Part No.	Description	Value	Tolerance	Power
JR230	1-216-295-00 METAL GLAZE	0	5%	1/10W
JR252	1-216-296-00 METAL GLAZE	0	5%	1/8W
JR253	1-216-296-00 METAL GLAZE	0	5%	1/8W
JR255	1-216-296-00 METAL GLAZE	0	5%	1/8W
JR256	1-216-296-00 METAL GLAZE	0	5%	1/8W
JR257	1-216-296-00 METAL GLAZE	0	5%	1/8W
JR258	1-216-296-00 METAL GLAZE	0	5%	1/8W
R101	1-216-025-00 METAL GLAZE	100	5%	1/10W
R105	1-216-079-00 METAL GLAZE	18K	5%	1/10W
R107	1-216-081-00 METAL GLAZE	22K	5%	1/10W
R108	1-216-079-00 METAL GLAZE	18K	5%	1/10W
R110	1-249-429-11 CARBON	10K	5%	1/4W
R111	1-216-057-00 METAL GLAZE	2.2K	5%	1/10W
R116	1-216-023-00 METAL GLAZE	82	5%	1/10W
R118	1-216-085-00 METAL GLAZE	33K	5%	1/10W
R128	1-216-027-00 METAL GLAZE	120	5%	1/10W
R129	1-216-057-00 METAL GLAZE	2.2K	5%	1/10W
R130	1-216-057-00 METAL GLAZE	2.2K	5%	1/10W
R157	1-216-049-00 METAL GLAZE	1K	5%	1/10W
R158	1-249-409-11 CARBON	220	5%	1/4W
R159	1-249-409-11 CARBON	220	5%	1/4W
R161	1-216-089-00 METAL GLAZE	47K	5%	1/10W
R162	1-216-095-00 METAL GLAZE	82K	5%	1/10W
R163	1-216-095-00 METAL GLAZE	82K	5%	1/10W
R164	1-216-075-00 METAL GLAZE	12K	5%	1/10W
R165	1-216-075-00 METAL GLAZE	12K	5%	1/10W
R167	1-216-059-00 METAL GLAZE	2.7K	5%	1/10W
R168	1-216-089-00 METAL GLAZE	47K	5%	1/10W
R169	1-216-059-00 METAL GLAZE	2.7K	5%	1/10W
R181	1-216-049-00 METAL GLAZE	1K	5%	1/10W
R182	1-216-065-00 METAL GLAZE	4.7K	5%	1/10W
R193	1-216-073-00 METAL GLAZE	10K	5%	1/10W
R194	1-216-017-00 METAL GLAZE	47	5%	1/10W
R195	1-216-017-00 METAL GLAZE	47	5%	1/10W
R196	1-216-113-00 METAL GLAZE	470K	5%	1/10W

<TUNER>

TU101 Δ 1-465-301-11 TUNER, ET (UV-816(PLL))

<IF BLOCK>

VIF101 1-466-154-21 IF BLOCK (IFG-389S)

*A-1638-011-A C BOARD, COMPLETE (KV-E2521D ONLY)

*A-1638-013-A C BOARD, COMPLETE (KV-E2921D ONLY)

*1-506-371-00 PIN, CONNECTOR 2P
*1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P
*1-568-878-51 PIN, CONNECTOR 3P

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-568-881-51	PIN, CONNECTOR 6P		R709	1-202-844-00	SOLID 330K 10%	1/2W
	*4-379-160-01	COVER (REAR LID), CV		R710	1-215-465-00	METAL 68K 1%	1/6W
	*4-379-167-01	COVER (MAIN), CV		R711	1-249-426-11	CARBON 5.6K 5%	1/4W
				R712	1-249-417-11	CARBON 1K 5%	1/4W
				R713	1-215-471-00	METAL 120K 1%	1/6W
	<CAPACITOR>						
C703	1-102-980-00	CERAMIC 270PF 5%	50V	R714	1-216-486-00	METAL OXIDE 8.2K 5%	3W F
C704	1-102-116-00	CERAMIC 680PF 10%	50V	R715	1-202-824-00	SOLID 3.3K 10%	1/2W
C705	1-102-978-00	CERAMIC 220PF 5%	50V	R716	1-249-409-11	CARBON 220 5%	1/4W
C706	1-102-116-00	CERAMIC 680PF 10%	50V	R717	1-249-415-11	CARBON 680 5%	1/4W
C707	1-162-116-00	CERAMIC 680PF 10%	2KV	R718	1-202-814-11	SOLID 33K 10%	1/2W
C708	1-162-114-00	CERAMIC 0.0047MF	2KV	R719	1-249-401-11	CARBON 47 5%	1/4W
C709	1-102-116-00	CERAMIC 680PF 10%	50V	R720	1-249-423-11	CARBON 3.3K 5%	1/4W
C710	1-123-947-00	ELECT 10MF 20%	250V	R721	1-202-842-11	SOLID 220K 10%	1/2W
C711	1-101-880-00	CERAMIC 47PF 5%	50V	R722	1-202-848-00	SOLID 680K 10%	1/2W
C712	1-102-980-00	CERAMIC 270PF 5%	50V	R723	1-249-417-11	CARBON 1K 5%	1/4W
C714	1-124-360-00	ELECT 1000MF 20%	16V	R724	1-202-846-00	SOLID 470K 10%	1/2W
C716	1-162-622-11	CERAMIC 330PF 10%	400V	R725	1-202-838-00	SOLID 100K 10%	1/2W
C717	1-102-114-00	CERAMIC 470PF 10%	50V	R726	1-202-824-00	SOLID 3.3K 10%	1/2W
C718	1-102-114-00	CERAMIC 470PF 10%	50V	R727	1-249-409-11	CARBON 220 5%	1/4W
C719	1-102-114-00	CERAMIC 470PF 10%	50V	R728	1-216-347-11	METAL OXIDE 0.68 5%	1W F
	<DIODE>						
D701	8-719-110-14	DIODE RD9.1ES-B3		R729	1-249-416-11	CARBON 820 5%	1/4W
D702	8-719-911-19	DIODE 1SS119		R730	1-249-401-11	CARBON 47 5%	1/4W
D703	8-719-911-19	DIODE 1SS119		R731	1-249-423-11	CARBON 3.3K 5%	1/4W
D704	8-719-911-19	DIODE 1SS119		R732	1-249-415-11	CARBON 680 5%	1/4W
D705	8-719-911-19	DIODE 1SS119		R733	1-249-415-11	CARBON 680 5%	1/4W
D706	8-719-911-19	DIODE 1SS119		R734	1-249-405-11	CARBON 100 5%	1/4W
D707	8-719-911-19	DIODE 1SS119		R735	1-215-493-00	METAL 1M 1%	1/6W
D708	8-719-911-19	DIODE 1SS119		R736	1-216-486-00	METAL OXIDE 8.2K 5%	3W F
D709	8-719-911-19	DIODE 1SS119		R737	1-215-491-00	METAL 820K 1%	1/6W (KV-E2521D ONLY)
D710	8-719-911-19	DIODE 1SS119			1-215-485-00	METAL 470K 1%	1/6W (KV-E2921D ONLY)
D711	8-719-300-33	DIODE RU-3AM		R739	1-249-417-11	CARBON 1K 5%	1/4W
D713	8-719-911-19	DIODE 1SS119			<VARIABLE RESISTOR>		
	<JACK>			RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
J701	1-526-990-11	SOCKET, PICTURE TUBE		RV702	1-230-619-11	RES, ADJ, METAL GLAZE 110M	
				RV703	1-237-749-11	RES, ADJ, CARBON 2200	
				RV704	1-237-749-11	RES, ADJ, CARBON 2200	
	<COIL>			*****			
L704	1-410-878-11	INDUCTOR 33UH		A-1642-031-A	D BOARD, COMPLETE (KV-E2521D ONLY)		
				A-1642-032-A	D BOARD, COMPLETE (KV-E2921D ONLY)		
	<TRANSISTOR>						
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		
Q703	8-729-906-70	TRANSISTOR BF871		*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		
Q704	8-729-200-17	TRANSISTOR 2SA1091-0		*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE		*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR		
Q706	8-729-906-70	TRANSISTOR BF871		*1-565-395-11	PIN, CONNECTOR 3P		
Q707	8-729-200-17	TRANSISTOR 2SA1091-0		*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE		*1-568-536-11	PLUG (MINIATURE DY) 6P		
Q709	8-729-906-70	TRANSISTOR BF871		*1-568-878-51	PIN, CONNECTOR 3P (KV-E2921D ONLY)		
Q710	8-729-200-17	TRANSISTOR 2SA1091-0		*1-568-881-51	PIN, CONNECTOR 6P		
				*1-568-882-51	PIN, CONNECTOR 7P		
	<RESISTOR>			4-200-001-01	HOLDER, IC		
R704	1-216-486-00	METAL OXIDE 8.2K 5%	3W F	4-201-023-01	SPACER, INSULATING		
R705	1-202-824-00	SOLID 3.3K 10%	1/2W	*4-341-751-01	EYELET		
R706	1-249-409-11	CARBON 220 5%	1/4W	*4-341-752-01	EYELET		
R707	1-249-412-11	CARBON 390 5%	1/4W	*4-368-683-01	SPRING		
R708	1-249-401-11	CARBON 47 5%	1/4W				

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

D

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>				C525	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C002	1-163-205-00	CERAMIC CHIP 0.001MF	5% 50V	C526	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C003	1-124-925-11	ELECT 2.2MF	20% 50V	C527	1-137-098-11	FILM 0.1MF	10% 100V
C004	1-124-120-11	ELECT 220MF	20% 16V	C531	1-124-190-00	ELECT 680MF	10% 25V
C005	1-124-791-11	ELECT 1MF	20% 50V	C532	1-124-122-11	ELECT 100MF	20% 50V
C008	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C533	1-137-096-11	FILM 0.068MF	10% 100V
C009	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C534	1-124-120-11	ELECT 220MF	20% 16V
C010	1-124-120-11	ELECT 220MF	20% 16V	C536	1-131-365-00	TANTALUM 10MF	10% 16V
C011	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C537	1-124-791-11	ELECT 1MF	20% 50V
C013	1-137-098-11	FILM 0.1MF	10% 100V	C538	1-108-680-11	MYLAR 0.001MF	10% 100V
C014	1-137-098-11	FILM 0.1MF	10% 100V	C539	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C015	1-124-902-00	ELECT 0.47MF	20% 50V	C540	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C016	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C592	1-124-122-11	ELECT 100MF	20% 50V
C017	1-137-098-11	FILM 0.1MF	10% 100V	C593	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C018	1-163-127-00	CERAMIC CHIP 270PF	5% 50V	C601 Δ	1-161-964-61	CERAMIC 0.0047MF	250V
C019	1-137-094-11	FILM 0.047MF	10% 100V	C602 Δ	1-161-964-61	CERAMIC 0.0047MF	250V
C021	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C603 Δ	1-161-964-61	CERAMIC 0.0047MF	250V
C023	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C604 Δ	1-125-318-11	ELECT (BLOCK) 220MF	20% 400V
C024	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C605	1-124-484-11	ELECT 220MF	20% 35V
C027	1-124-910-11	ELECT 47MF	20% 50V	C606	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C030	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C607	1-137-028-11	FILM 1MF	10% 63V
C031	1-163-081-00	CERAMIC CHIP 0.22MF	25V	C608	1-124-927-11	ELECT 4.7MF	20% 50V
C032	1-163-081-00	CERAMIC CHIP 0.22MF	25V	C611	1-124-910-11	ELECT 47MF	20% 50V
C033	1-163-181-00	CERAMIC CHIP 100PF	5% 50V	C612	1-108-680-11	MYLAR 0.001MF	10% 100V
C034	1-123-875-11	ELECT 10MF	20% 50V	C613	1-136-539-11	FILM 0.0022MF	3% 2KV
C034	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C614	1-102-030-00	CERAMIC 330PF	10% 500V
C251	1-124-791-11	ELECT 1MF	20% 50V	C615	1-128-142-11	ELECT 1500MF	20% 25V
C252	1-126-233-11	ELECT 22MF	20% 50V	C616	1-102-030-00	CERAMIC 330PF	10% 500V
C253	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C617	1-124-122-11	ELECT 100MF	20% 50V
C254	1-137-098-11	FILM 0.1MF	10% 100V	C618	1-162-115-00	CERAMIC 330PF	10% 2KV
C255	1-124-636-00	ELECT 3300MF	20% 25V	C619	1-128-320-51	ELECT 2200MF	20% 16V
C261	1-124-791-11	ELECT 1MF	20% 50V	C620	1-136-173-00	FILM 0.47MF	5% 50V
C262	1-126-233-11	ELECT 22MF	20% 50V	C621	1-124-347-00	ELECT 100MF	20% 160V
C263	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C622	1-128-320-51	ELECT 2200MF	20% 16V
C264	1-137-098-11	FILM 0.1MF	10% 100V	C623	1-124-910-11	ELECT 47MF	20% 50V
C265	1-124-564-11	ELECT 4700MF	20% 25V	C624	1-124-122-11	ELECT 100MF	20% 50V
C270	1-137-035-11	FILM 0.47MF	10% 100V	C625	1-124-360-00	ELECT 1000MF	20% 16V
C274	1-137-035-11	FILM 0.47MF	10% 100V	C626	1-124-907-11	ELECT 10MF	20% 50V
C501	1-124-927-11	ELECT 4.7MF	20% 50V	C627	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C502	1-124-927-11	ELECT 4.7MF	20% 50V	C631	1-124-927-11	ELECT 4.7MF	20% 50V
C503	1-137-049-11	FILM 0.015MF	10% 400V	C632	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C504	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C633	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C505	1-108-794-11	MYLAR 0.0015MF	5% 50V	C801	1-126-105-11	ELECT 1000MF	20% 35V
C506	1-137-102-11	FILM 0.022MF	10% 250V	C802	1-102-030-00	CERAMIC 330PF	10% 500V
C507	1-137-033-11	FILM 0.33MF	10% 100V	C804	1-123-948-00	ELECT 22MF	20% 250V
C508	1-137-102-11	FILM 0.022MF	10% 250V	C805	1-162-114-00	CERAMIC 0.0047MF	2KV
C509	1-137-098-11	FILM 0.1MF	10% 100V	C806	1-137-098-11	FILM 0.1MF	10% 100V
C510	1-161-959-00	CERAMIC 22PF	10% 500V	C807	1-106-395-00	MYLAR 0.15MF	10% 200V
C511	1-108-686-11	MYLAR 0.0033MF	10% 100V	C810	1-123-024-21	ELECT 33MF	160V
C512	1-137-098-11	FILM 0.1MF	10% 100V	C811	1-136-113-00	FILM 2MF	5% 200V
C513	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C812	1-124-634-11	ELECT 1MF	20% 250V
C514	1-137-031-11	FILM 0.22MF	10% 100V	C813	1-102-212-00	CERAMIC 820PF	10% 500V
C515	1-124-791-11	ELECT 1MF	20% 50V	C814 Δ	1-161-731-51	CERAMIC 0.001MF	10% 2KV
C516	1-108-680-11	MYLAR 0.001MF	10% 100V	C815	1-136-111-00	FILM 1MF	5% 200V
C517	1-124-252-00	ELECT 0.33MF	20% 50V		1-136-540-11	FILM 0.82MF	5% 200V
C518	1-124-902-00	ELECT 0.47MF	20% 50V				(KV-E2521D ONLY)
C519	1-136-173-00	FILM 0.47MF	5% 50V				(KV-E2921D ONLY)
	1-136-171-00	FILM 0.33MF	5% 50V	C817 Δ	1-136-565-11	FILM 0.015MF	3% 1.4KV
			(KV-E2921D ONLY)				(KV-E2521D ONLY)
C520	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V		Δ 1-136-591-11	FILM 0.017MF	3% 1.4KV
							(KV-E2921D ONLY)
C521	1-137-098-11	FILM 0.1MF	10% 100V	C818 Δ	1-129-721-51	FILM 0.039MF	10% 630V
C522	1-124-122-11	ELECT 100MF	20% 50V	C819 Δ	1-161-731-51	CERAMIC 0.001MF	10% 2KV
C523	1-108-680-11	MYLAR 0.001MF	10% 100V				
C524	1-108-798-11	MYLAR 0.0033MF	5% 50V				

The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C820	1-137-046-11	FILM	0.0082MF 10% 400V	D618	8-719-109-89	DIODE RD5.6ES-B2	
C821	A 1-162-116-51	CERAMIC	680PF 10% 2KV	D619	8-719-982-24	DIODE MTZJ-33A	
			(KV-E2521D ONLY)	D620	8-719-800-76	DIODE ISS226	
	A 1-162-134-51	CERAMIC	470PF 10% 2KV	D621	8-719-982-24	DIODE MTZJ-33A	
			(KV-E2921D ONLY)	D622	8-719-911-19	DIODE ISS119	
C822	1-163-005-11	CERAMIC CHIP	470PF 10% 50V	D623	8-719-911-19	DIODE ISS119	
C823	1-137-043-11	FILM	0.0047MF 10% 400V	D624	8-719-911-19	DIODE ISS119	
C824	1-102-212-00	CERAMIC	820PF 10% 500V	D630	8-719-921-91	DIODE MTZJ-15A	
C825	1-137-102-11	FILM	0.022MF 10% 250V	D801	8-719-300-33	DIODE RU-3AM	
C1601	A 1-136-518-11	FILM	0.33MF 20% 300V	D802	8-719-300-33	DIODE RU-3AM	
C1602	A 1-136-519-11	FILM	0.47MF 20% 300V	D803	8-719-976-64	DIODE RGP02-17	
C1603	A 1-164-246-51	CERAMIC	0.0022MF 20% 400V	D804	8-719-911-55	DIODE U05G	
			(KV-E2921D ONLY)	D805	8-719-911-55	DIODE U05G	
C1604	A 1-164-246-51	CERAMIC	0.0022MF 20% 400V	D806	8-719-945-80	DIODE ERC06-15S	
			(KV-E2521D ONLY)	D807	8-719-945-80	DIODE ERC06-15S	
C1605	A 1-164-246-51	CERAMIC	0.0022MF 20% 400V	D808	8-719-900-26	DIODE ERD29-08J	
C1607	A 1-161-964-61	CERAMIC	0.0047MF 250V				
<FILTER>				<IC>			
CF001	1-577-364-11	VIBRATOR, CERAMIC		IC001	8-759-515-80	IC SDA20560-A008	
CF501	1-567-888-11	OSCILLATOR, CERAMIC		IC002	8-759-208-06	IC TC4051BPHB	
<CONNECTOR>				IC003	8-759-945-58	IC RC4558P	
CND801	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		IC005	8-759-748-56	IC SDA2546	
			(KV-E2921D ONLY)	IC251	8-759-988-94	IC TDA2050	
<DIODE>					4-812-134-00	RIVET NYLON, 3.5; IC251	
D003	8-719-911-19	DIODE ISS119		IC261	8-759-988-94	IC TDA2050	
D005	8-719-109-89	DIODE RD5.6ES-B2			4-812-134-00	RIVET NYLON, 3.5; IC261	
D006	8-719-982-24	DIODE MTZJ-33A		IC501	8-759-970-73	IC TEA2028B	
D007	8-719-982-08	DIODE MTZJ-3.9B		IC502	8-759-944-57	IC TDA8170	
D009	8-719-109-89	DIODE RD5.6ES-B2		IC601	8-759-988-95	IC TEA2260	
D010	8-719-921-54	DIODE MTZJ-6.2B		IC604	8-759-510-52	IC TEA7605	
D011	8-719-921-54	DIODE MTZJ-6.2B		IC608	8-759-037-26	IC TYA7812CT	
D012	8-719-911-19	DIODE ISS119		<COIL>			
D013	8-719-109-97	DIODE RD6.8ES-B2		L501	1-408-225-00	INDUCTOR 3.3UH	
D271	8-719-921-88	DIODE MTZJ-13B		L601	*1-420-872-00	COIL, AIR CORE	
D272	8-719-911-19	DIODE ISS119		L602	1-410-396-41	FERRITE BEAD INDUCTOR	
D501	8-719-911-19	DIODE ISS119		L603	1-410-396-41	FERRITE BEAD INDUCTOR	
D504	8-719-911-55	DIODE U05G		L604	1-410-671-31	INDUCTOR 47UH	
D506	8-719-800-76	DIODE ISS226 (KV-E2521D ONLY)		L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)	
D508	8-719-911-19	DIODE ISS119		L606	1-421-013-00	COIL (HORIZONTAL CHOKE) 25UH	
D509	8-719-911-19	DIODE ISS119		L607	1-410-671-31	INDUCTOR 47UH	
D511	8-719-911-55	DIODE U05G		L801	1-459-087-00	COIL, HCC DUST CORE 3.9MMH	(KV-E2921D ONLY)
D512	8-719-911-55	DIODE U05G		L803	1-459-104-00	COIL, DUST CORE	
D513	8-719-010-34	DIODE UZ-4.7BSC		L804	1-408-239-00	INDUCTOR 4.7MMH	
D514	8-719-911-19	DIODE ISS119 (KV-E2921D ONLY)		L805	1-459-755-11	COIL, HORIZONTAL LINEARITY	(KV-E2521D ONLY)
D515	8-719-911-19	DIODE ISS119 (KV-E2921D ONLY)			1-459-907-11	COIL, HORIZONTAL LINEARITY	(KV-E2921D ONLY)
D601	A 8-719-510-63	DIODE D4SB60L-F		L806	1-459-111-00	COIL, DRAM CORE (CDI) (KV-E2521D ONLY)	
D602	8-719-300-33	DIODE RU-3AM			1-459-087-00	COIL, HCC DUST CORE 3.9MMH	(KV-E2921D ONLY)
D603	8-719-911-55	DIODE U05G		L809	*1-420-872-00	COIL, AIR CORE	
D604	8-719-911-55	DIODE U05G		L810	A 1-421-982-12	PMC (KV-E2521D ONLY)	
D605	8-719-911-55	DIODE U05G			A 1-421-794-21	TRANSFORMER, FERRITE (PMT)	(KV-E2921D ONLY)
D606	8-719-300-33	DIODE RU-3AM		<TRANSFORMER>			
D607	8-719-300-33	DIODE RU-3AM		LF1601	A 1-421-866-12	LFT	
D608	8-719-300-33	DIODE RU-3AM		LF1602	A 1-421-776-11	LFT	
D609	8-719-982-24	DIODE MTZJ-33A		LF1603	A 1-421-862-11	LFT	
D610	8-719-300-59	DIODE CTU-12S		T601	A 1-450-038-11	S.R.T (KV-E2521D ONLY)	
D611	8-719-900-26	DIODE ERD29-08J					
D612	8-719-300-59	DIODE CTU-12S					
D613	8-719-979-85	DIODE EGP20G					
D614	8-719-979-85	DIODE EGP20G					
D616	8-719-921-54	DIODE MTZJ-6.2B					
D617	8-719-911-19	DIODE ISS119					

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
T601	Δ 1-450-037-11	S.R.T (KV-E2921D ONLY)		R015	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
T602	Δ 1-424-277-11	TRANSFORMER, TRIGGER PULSE		R016	1-216-085-00	METAL GLAZE 33K 5%	1/10W
T801	Δ 1-437-090-21	HDT		R017	1-216-748-11	METAL GLAZE 39K 5%	1/10W
T802	Δ 1-439-416-11	TRANSFORMER ASSY, FLYBACK (UX-1600)		R018	1-216-095-00	METAL GLAZE 82K 5%	1/10W
<IC LINK>				R019	1-216-025-00	METAL GLAZE 100 5%	1/10W
PS601	Δ 1-532-984-91	LINK, IC (ICP-N50) 2A		R020	1-216-025-00	METAL GLAZE 100 5%	1/10W
PS602	Δ 1-532-984-91	LINK, IC (ICP-N50) 2A		R021	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
PS603	Δ 1-532-679-91	LINK, IC (ICP-N15) 0.6A		R022	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
PS604	Δ 1-532-984-91	LINK, IC (ICP-N50) 2A		R024	1-216-073-00	METAL GLAZE 10K 5%	1/10W
<TRANSISTOR>				R025	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q001	8-729-901-01	TRANSISTOR DTC144EK		R026	1-216-182-00	METAL GLAZE 220 5%	1/8W
Q002	8-729-901-01	TRANSISTOR DTC144EK		R027	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q003	8-729-216-22	TRANSISTOR 2SA1162-G		R028	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q004	8-729-216-22	TRANSISTOR 2SA1162-G		R029	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q005	8-729-901-01	TRANSISTOR DTC144EK		R030	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q006	8-729-901-01	TRANSISTOR DTC144EK		R031	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q007	8-729-901-78	TRANSISTOR 2SC2412K-R		R032	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q008	8-729-901-78	TRANSISTOR 2SC2412K-R		R033	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q009	8-729-901-78	TRANSISTOR 2SC2412K-R		R034	1-216-077-00	METAL GLAZE 15K 5%	1/10W
Q010	8-729-901-78	TRANSISTOR 2SC2412K-R		R035	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q251	8-729-901-78	TRANSISTOR 2SC2412K-R		R036	1-216-083-00	METAL GLAZE 27K 5%	1/10W
Q261	8-729-901-78	TRANSISTOR 2SC2412K-R		R037	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q271	8-729-901-78	TRANSISTOR 2SC2412K-R		R038	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		R039	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q505	8-729-140-96	TRANSISTOR 2SD774-34		R040	1-216-077-00	METAL GLAZE 15K 5%	1/10W
Q506	8-729-140-97	TRANSISTOR 2SB734-34		R041	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		R042	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q598	8-729-216-22	TRANSISTOR 2SA1162-G		R043	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q601	8-729-122-03	TRANSISTOR 2SA1220A-P		R044	1-216-097-00	METAL GLAZE 100K 5%	1/10W
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB		R045	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q603	8-729-122-03	TRANSISTOR 2SA1220A-P		R046	1-216-095-00	METAL GLAZE 82K 5%	1/10W
Q604	8-729-216-22	TRANSISTOR 2SA1162-G		R047	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q605	8-729-901-78	TRANSISTOR 2SC2412K-R		R048	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q606	8-729-901-78	TRANSISTOR 2SC2412K-R		R049	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF		R050	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
Q608	8-729-901-78	TRANSISTOR 2SC2412K-R		R051	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q609	8-729-320-62	TRANSISTOR 2SD789-34		R052	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q801	8-729-901-78	TRANSISTOR 2SC2412K-R		R053	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q804	8-729-304-50	TRANSISTOR 2SD1941-06		R054	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK		R055	1-216-037-00	METAL GLAZE 330 5%	1/10W
<RESISTOR>				R056	1-216-073-00	METAL GLAZE 10K 5%	1/10W
JR1	1-216-296-00	METAL GLAZE 0 5%	1/8W	R057	1-216-025-00	METAL GLAZE 100 5%	1/10W
JR3	1-216-296-00	METAL GLAZE 0 5%	1/8W	R058	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR4	1-216-296-00	METAL GLAZE 0 5%	1/8W	R059	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR5	1-216-295-00	METAL GLAZE 0 5%	1/10W	R060	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR6	1-216-295-00	METAL GLAZE 0 5%	1/10W	R061	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR7	1-216-296-00	METAL GLAZE 0 5%	1/8W	R062	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR8	1-216-295-00	METAL GLAZE 0 5%	1/10W	R063	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R001	1-216-041-00	METAL GLAZE 470 5%	1/10W	R064	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R002	1-216-041-00	METAL GLAZE 470 5%	1/10W	R065	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R003	1-216-198-00	METAL GLAZE 1K 5%	1/8W	R066	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R004	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R067	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R005	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R068	1-216-174-00	METAL GLAZE 100 5%	1/8W
R006	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R069	1-216-174-00	METAL GLAZE 100 5%	1/8W
R007	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R070	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R008	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R071	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R009	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R072	1-216-222-00	METAL GLAZE 10K 5%	1/8W
R010	1-216-041-00	METAL GLAZE 470 5%	1/10W	R073	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R011	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R075	1-216-041-00	METAL GLAZE 470 5%	1/10W
R012	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R076	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R013	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R078	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R014	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R079	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R080	1-216-073-00	METAL GLAZE 10K 5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R081	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R534	1-216-119-00	METAL GLAZE	820K 5% 1/10W
R082	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R535	1-249-749-00	CARBON	2.2M 5% 1/4W
R083	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R536	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R084	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R537	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R085	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R538	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R086	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R539	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R087	1-216-035-00	METAL GLAZE	270 5% 1/10W	R540	1-216-013-00	METAL GLAZE	33 5% 1/10W
R088	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R541	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R093	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R542	1-216-308-00	METAL GLAZE	4.7 5% 1/10W
R094	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R543	1-249-451-11	CARBON	2.2 5% 1/4W
R095	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R544	1-247-745-11	CARBON	330 5% 1/2W
R096	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R545	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R098	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R546	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R251	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R547	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R252	1-216-039-00	METAL GLAZE	390 5% 1/10W	R548	1-216-349-00	METAL OXIDE	1 5% 1W F
R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R549	1-216-454-11	METAL OXIDE	390 5% 2W F
R254	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R550	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R255	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R551	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R256	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R553	1-215-869-11	METAL OXIDE	1K 5% 1W
R257	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R554	1-216-037-00	METAL GLAZE	330 5% 1/10W
R258	1-215-869-11	METAL OXIDE	1K 5% 1W F	R555	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R259	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R556	1-216-025-00	METAL GLAZE	100 5% 1/10W
R261	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R557	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R262	1-216-039-00	METAL GLAZE	390 5% 1/10W	R558	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R263	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R559	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R264	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R560	1-216-037-00	METAL GLAZE	330 5% 1/10W
R265	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R561	1-216-107-00	METAL GLAZE	270K 5% 1/10W
R266	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R570	1-216-045-00	METAL GLAZE	680 5% (KV-E2921D ONLY)
R267	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R591	1-216-047-00	METAL GLAZE	820 5% 1/10W
R268	1-215-869-11	METAL OXIDE	1K 5% 1W F	R592	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R269	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R593	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R270	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R594	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R271	1-216-045-00	METAL GLAZE	680 5% 1/10W	R597	1-216-041-00	METAL GLAZE	470 5% 1/10W
R272	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R598	1-215-900-11	METAL OXIDE	22K 5% 2W F
R273	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R600	1-249-381-11	CARBON	1 5% 1/4W
R274	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R601	1-216-353-00	METAL OXIDE	2.2 5% 1W F
R500	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R603	1-216-469-11	METAL OXIDE	12 5% 3W F
R501	1-216-041-00	METAL GLAZE	470 5% 1/10W	R604	1-216-025-00	METAL GLAZE	100 5% 1/10W
R502	1-216-033-00	METAL GLAZE	220 5% 1/10W	R605	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R503	1-216-035-00	METAL GLAZE	270 5% 1/10W	R606	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R504	1-249-420-11	CARBON	1.8K 5% 1/4W	R607	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R505	1-216-077-00	METAL GLAZE	15K 5% 1/10W		1-216-067-00	METAL GLAZE	5.6K 5% (KV-E2521D ONLY)
R506	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W				(KV-E2921D ONLY)
R509	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R608	1-216-488-11	METAL OXIDE	18K 5% 3W F
R510	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R609	1-216-007-00	METAL GLAZE	18 5% 1/10W
R514	1-216-033-00	METAL GLAZE	220 5% 1/10W	R610	1-244-941-00	CARBON	680K 5% 1/2W
R515	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R611	1-216-015-00	METAL GLAZE	39 5% 1/10W
R517	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R612	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R518	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R613	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R519	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R614	1-205-758-11	WIREWOUND	100 10% 10W F
R520	1-216-037-00	METAL GLAZE	330 5% 1/10W	R616	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R521	1-216-025-00	METAL GLAZE	100 5% 1/10W	R617	1-216-037-00	METAL GLAZE	330 5% 1/10W
R522	1-215-469-00	METAL	100K 1% 1/6W	R618	1-216-431-11	METAL OXIDE	560 5% 1W F
R523	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R619	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R524	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R620	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R525	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R621	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R526	1-249-409-11	CARBON	220 5% 1/4W F	R622	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R527	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R623	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R528	1-216-031-00	METAL GLAZE	180 5% 1/10W	R624	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R529	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R625	1-215-865-11	METAL OXIDE	220 5% 1W F
R530	1-249-448-11	CARBON	1.2 5% 1/4W F				
R531	1-216-099-00	METAL GLAZE	120K 5% 1/10W				
R532	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R533	1-216-295-00	METAL GLAZE	0 5% 1/10W				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK
R626	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R628	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R629	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R633	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R634	1-216-430-11	METAL OXIDE 390 5% 1W F	
R635	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R636	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R643	1-217-189-21	WIREWOUND 0.12 5% 2W F	
R651	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R653	1-205-758-11	WIREWOUND 100 10% 10W F	
R802	1-249-443-11	CARBON 0.47 5% 1/4W F	
R805	1-249-448-11	CARBON 1.2 5% 1/4W F	
R806	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R807	1-215-869-11	METAL OXIDE 1K 5% 1W F	
R809	1-202-821-11	SOLID 1.8K 10% 1/2W	
R810	1-202-818-00	SOLID 1K 10% 1/2W	
R811	1-215-882-00	METAL OXIDE 22 5% 2W F	
R812	1-249-494-11	CARBON 68K 5% 1/2W (KV-E2521D ONLY)	
	1-247-281-00	CARBON 51K 5% 1/2W	
R815	1-215-884-11	METAL OXIDE 47 5% 2W F	
R816	1-215-868-00	METAL OXIDE 680 5% 1W F	
R817	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R820	1-249-403-11	CARBON 68 5% 1/4W	
R821	1-247-725-11	CARBON 10K 5% 1/4W F	
R822	1-217-778-11	FUSIBLE 1K 5% 1W F	
R825	1-216-345-11	METAL OXIDE 0.47 5% 1W F	
R826	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R827	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R828	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R829	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
R831	1-249-451-11	CARBON 2.2 5% 1/4W	
R1601 Δ	1-246-513-75	CARBON 47K 5% 1/4W	
R1602 Δ	1-244-945-91	CARBON 1M 5% 1/2W	
R1603 Δ	1-217-328-11	WIREWOUND 2.7 10% 7W F	
R1604 Δ	1-246-513-75	CARBON 47K 5% 1/4W	
R1605 Δ	1-218-265-91	METAL GLAZE 8.2M 5% 1W	
R5501	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R5503	1-216-308-00	METAL GLAZE 4.7 5% 1/10W	
	1-216-001-00	METAL GLAZE 10 5% 1/10W (KV-E2521D ONLY)	
			(KV-E2921D ONLY)
R5504	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R5505	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R5506	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
			(KV-E2921D ONLY)
<VARIABLE RESISTOR>			
RV501	1-238-013-11	RES, ADJ, CARBON 2.2K	
RV502	1-238-016-11	RES, ADJ, CARBON 10K	
RV601	1-238-011-11	RES, ADJ, CARBON 470	
<SPARK GAP>			
SG801	1-519-422-11	GAP, SPARK	
<THERMISTOR>			
THP601 Δ	1-808-059-32	THERMISTOR, POSITIVE	

REF.NO.	PART NO.	DESCRIPTION	REMARK

	*1-634-193-11	VM BOARD (KV-E2921D ONLY)	

	*1-568-878-51	PIN, CONNECTOR 3P	
<CAPACITOR>			
C751	1-101-361-00	CERAMIC 150PF 5% 50V	
C752	1-108-629-11	MYLAR 0.018MF 10% 100V	
C753	1-137-047-11	FILM 0.01MF 10% 400V	
C754	1-102-980-00	CERAMIC 270PF 5% 50V	
C757	1-108-692-11	MYLAR 0.01MF 10% 200V	
C759	1-123-875-11	ELECT 10MF 20% 50V	
C760	1-124-917-11	ELECT 33MF 20% 50V	
C761	1-101-006-00	CERAMIC 0.047MF 50V	
C762	1-137-047-11	FILM 0.01MF 10% 400V	
<COIL>			
L751	1-408-413-00	INDUCTOR 22UH	
L770	1-410-665-31	INDUCTOR 15UH	
<TRANSISTOR>			
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q753	8-729-140-97	TRANSISTOR 2SB734-34	
Q754	8-729-140-96	TRANSISTOR 2SD774-34	
<RESISTOR>			
R751	1-249-418-11	CARBON 1.2K 5% 1/4W	
R752	1-249-426-11	CARBON 5.6K 5% 1/4W	
R753	1-249-414-11	CARBON 560 5% 1/4W	
R754	1-249-434-11	CARBON 27K 5% 1/4W	
R755	1-249-405-11	CARBON 100 5% 1/4W	
R756	1-249-419-11	CARBON 1.5K 5% 1/4W	
R757	1-249-405-11	CARBON 100 5% 1/4W	
R758	1-249-409-11	CARBON 220 5% 1/4W	
R760	1-249-411-11	CARBON 330 5% 1/4W	
R761	1-249-429-11	CARBON 10K 5% 1/4W	
R762	1-247-895-00	CARBON 470K 5% 1/4W	
R763	1-249-429-11	CARBON 10K 5% 1/4W	
R764	1-249-455-11	CARBON 4.7 5% 1/4W F	
R765	1-249-455-11	CARBON 4.7 5% 1/4W F	
R766	1-247-753-11	CARBON 1.2K 5% 1/2W	
R767	1-247-751-11	CARBON 820 5% 1/2W	
R768	1-215-887-00	METAL OXIDE 150 5% 2W F	
R769	1-212-889-00	FUSIBLE 220 5% 1/4W F	

A-1645-013-A V BOARD, COMPLETE

<CAPACITOR>

C1	1-126-101-11	ELECT 100MF 20% 16V
C2	1-163-038-00	CERAMIC CHIP 0.1MF 25V
C3	1-124-120-11	ELECT 220MF 20% 16V
C4	1-163-077-00	CERAMIC CHIP 0.1MF 50V
C5	1-124-120-11	ELECT 220MF 20% 16V
C6	1-163-038-00	CERAMIC CHIP 0.1MF 25V

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C7	1-163-235-11	CERAMIC CHIP 22PF	5%	JR11	1-216-295-00	METAL GLAZE	0 5% 1/10W
C8	1-163-235-11	CERAMIC CHIP 22PF	5%	JR12	1-216-295-00	METAL GLAZE	0 5% 1/10W
C9	1-163-235-11	CERAMIC CHIP 22PF	5%	JR13	1-216-296-00	METAL GLAZE	0 5% 1/8W
C10	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR14	1-216-296-00	METAL GLAZE	0 5% 1/8W
C11	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR16	1-216-296-00	METAL GLAZE	0 5% 1/8W
C12	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR17	1-216-295-00	METAL GLAZE	0 5% 1/10W
C13	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR21	1-216-296-00	METAL GLAZE	0 5% 1/8W
C14	1-124-927-11	ELECT 4.7MF	20%	JR22	1-216-295-00	METAL GLAZE	0 5% 1/10W
C15	1-124-927-11	ELECT 4.7MF	20%	JR23	1-216-295-00	METAL GLAZE	0 5% 1/10W
C16	1-163-141-00	CERAMIC CHIP 0.001MF	5%	JR24	1-216-296-00	METAL GLAZE	0 5% 1/8W
C17	1-163-141-00	CERAMIC CHIP 0.001MF	5%	JR26	1-216-296-00	METAL GLAZE	0 5% 1/8W
C18	1-163-141-00	CERAMIC CHIP 0.001MF	5%	JR27	1-216-295-00	METAL GLAZE	0 5% 1/10W
C19	1-163-235-11	CERAMIC CHIP 22PF	5%	JR201	1-216-295-00	METAL GLAZE	0 5% 1/10W
<CONNECTOR>				JR204	1-216-295-00	METAL GLAZE	0 5% 1/10W
CNV1	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JR207	1-216-295-00	METAL GLAZE	0 5% 1/10W
CNV2	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JR208	1-216-295-00	METAL GLAZE	0 5% 1/10W
<DIODE>				JR211	1-216-295-00	METAL GLAZE	0 5% 1/10W
D1	8-719-105-91	DIODE RD5.6M-B2		JR213	1-216-295-00	METAL GLAZE	0 5% 1/10W
D3	8-719-914-44	DIODE DAP202K		JR219	1-216-296-00	METAL GLAZE	0 5% 1/8W
D4	8-719-400-18	DIODE MA152WK		JR220	1-216-295-00	METAL GLAZE	0 5% 1/10W
D5	8-719-914-44	DIODE DAP202K		JR223	1-216-295-00	METAL GLAZE	0 5% 1/10W
D6	8-719-400-18	DIODE MA152WK		R1	1-218-326-11	METAL GLAZE	470 5% 1/2W
D7	8-719-105-52	DIODE RD3.6M-B2		R3	1-216-049-00	METAL GLAZE	1K 5% 1/10W
D9	8-719-106-17	DIODE RD6.8M-B2		R4	1-216-025-00	METAL GLAZE	100 5% 1/10W
<IC>				R5	1-216-047-00	METAL GLAZE	820 5% 1/10W
IC1	8-759-038-58	IC SDA20162-A002		R6	1-216-001-00	METAL GLAZE	10 5% 1/10W
IC2	8-759-510-46	IC SAA5246P/E		R7	1-216-083-00	METAL GLAZE	27K 5% 1/10W
IC3	8-759-510-49	IC FCB61C65-70P		R8	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
<COIL>				R9	1-216-308-00	METAL GLAZE	4.7 5% 1/10W
L1	1-408-403-00	INDUCTOR 3.3UH		R02	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W
L2	1-408-407-00	INDUCTOR 6.8UH		R10	1-218-325-11	METAL GLAZE	120 5% 1/4W
L3	1-408-407-00	INDUCTOR 6.8UH		R11	1-218-325-11	METAL GLAZE	120 5% 1/4W
L4	1-408-407-00	INDUCTOR 6.8UH		R12	1-218-325-11	METAL GLAZE	120 5% 1/4W
<IC LINK>				R13	1-216-025-00	METAL GLAZE	100 5% 1/10W
PS1	Δ 1-532-679-91	LINK, IC (ICP-N15) 0.6A		R14	1-216-001-00	METAL GLAZE	10 5% 1/10W
<TRANSISTOR>				R15	1-216-013-00	METAL GLAZE	33 5% 1/10W
Q1	8-729-900-53	TRANSISTOR DTC114EK		R16	1-216-013-00	METAL GLAZE	33 5% 1/10W
Q2	8-729-920-92	TRANSISTOR 2SD2096-EF		R17	1-216-013-00	METAL GLAZE	33 5% 1/10W
Q3	8-729-901-78	TRANSISTOR 2SC2412K-R		R18	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q4	8-729-901-78	TRANSISTOR 2SC2412K-R		R19	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6		R20	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6		R21	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6		R22	1-216-168-00	METAL GLAZE	56 5% 1/8W
Q8	8-729-901-78	TRANSISTOR 2SC2412K-R		R23	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W
<RESISTOR>				R24	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR01	1-216-295-00	METAL GLAZE	0 5% 1/10W	R25	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR02	1-216-295-00	METAL GLAZE	0 5% 1/10W	R26	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR03	1-216-295-00	METAL GLAZE	0 5% 1/10W	R27	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W
JR08	1-216-295-00	METAL GLAZE	0 5% 1/10W	R28	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
JR09	1-216-295-00	METAL GLAZE	0 5% 1/10W	R34	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
<VARIABLE RESISTOR>				R35	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R40	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R41	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R42	1-216-049-00	METAL GLAZE	1K 5% 1/10W
				R44	1-216-295-00	METAL GLAZE	0 5% 1/10W
				R46	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R47	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R49	1-216-049-00	METAL GLAZE	1K 5% 1/10W
				RV1	1-238-012-11	RES, ADJ, CARBON 1K	

V	H1	H2	J2	J1
---	----	----	----	----

REF.NO. PART NO. DESCRIPTION

<CRYSTAL>

X1 1-579-266-21 CRYSTAL VIBRATOR
X2 1-577-364-11 VIBRATOR, CERAMIC

*1-638-391-11 H1 BOARD

1-562-837-11 JACK
*1-564-512-11 PLUG, CONNECTOR 9P
1-568-678-11 TERMINAL BLOCK, S 3P
*1-568-879-51 PIN, CONNECTOR 4P
*1-568-881-51 PIN, CONNECTOR 6P

<RESISTOR>

R1651 1-249-413-11 CARBON 470 5% 1/4W
R1652 1-249-413-11 CARBON 470 5% 1/4W

<SWITCH>

S1651 1-571-532-21 SWITCH, TACTIL
S1652 1-571-532-21 SWITCH, TACTIL
S1653 1-571-532-21 SWITCH, TACTIL

*1-638-392-11 H2 BOARD

*1-568-882-51 PIN, CONNECTOR 7P
*4-374-987-01 GUIDE, LIGHT
*4-381-686-01 BRACKET (B), LIGHT GUIDE

<DIODE>

D1651 8-719-948-31 DIODE LD-201VR
*4-201-076-01 HOLDER, LED; D1651
D1652 8-719-948-31 DIODE LD-201VR
*4-201-076-01 HOLDER, LED; D1652
D1654 8-719-948-31 DIODE LD-201VR
*4-201-076-01 HOLDER, LED; D1654

<IC>

IC1651 8-741-101-75 IC SBX1610-11

<RESISTOR>

R1662 1-249-413-11 CARBON 470 5% 1/4W

*1-638-393-11 J2 BOARD

1-537-339-11 TERMINAL BOARD
*1-560-278-21 PLUG, CONNECTOR 4P
*1-564-517-11 PLUG, CONNECTOR 2P
*1-564-519-11 PLUG, CONNECTOR 4P

<CAPACITOR>

C1751 1-101-005-00 CERAMIC 0.022MF 50V
C1752 1-101-005-00 CERAMIC 0.022MF 50V
C1755 1-102-114-00 CERAMIC 470PF 10% 50V
C1756 1-102-114-00 CERAMIC 470PF 10% 50V

REMARK

REF.NO. PART NO.

DESCRIPTION

REMARK

<COIL>

L1751 1-412-240-11 INDUCTOR, WIDE BAND
L1752 1-412-240-11 INDUCTOR, WIDE BAND

A-1651-018-A J1 BOARD, COMPLETE (KV-E2521D ONLY)

A-1651-020-A J1 BOARD, COMPLETE (KV-E2921D ONLY)

1-561-534-41 SOCKET 21P
*1-564-524-11 PLUG, CONNECTOR 9P
*1-564-527-11 PLUG, CONNECTOR 12P
*1-566-641-11 CONNECTOR, HINGE (TAB) 18P

<CAPACITOR>

C203 1-124-925-11 ELECT 2.2MF 20% 50V
C205 1-124-927-11 ELECT 4.7MF 20% 50V
C206 1-124-925-11 ELECT 2.2MF 20% 50V
C207 1-124-927-11 ELECT 4.7MF 20% 50V
C213 1-126-233-11 ELECT 22MF 20% 50V

C214 1-137-045-11 FILM 0.0068MF 10% 400V
C217 1-137-045-11 FILM 0.0068MF 10% 400V
C218 1-137-102-11 FILM 0.022MF 10% 250V
C219 1-137-102-11 FILM 0.022MF 10% 250V
C220 1-108-686-11 MYLAR 0.0033MF 10% 100V

C221 1-108-686-11 MYLAR 0.0033MF 10% 100V
C222 1-137-095-11 FILM 0.056MF 10% 100V
C223 1-137-095-11 FILM 0.056MF 10% 100V
C224 1-137-047-11 FILM 0.01MF 10% 400V
C225 1-136-173-00 FILM 0.47MF 5% 50V

C226 1-136-173-00 FILM 0.47MF 5% 50V
C227 1-137-102-11 FILM 0.022MF 10% 250V
C228 1-137-104-11 FILM 0.033MF 10% 250V
C229 1-137-049-11 FILM 0.015MF 10% 400V
C230 1-137-049-11 FILM 0.015MF 10% 400V

C231 1-124-902-00 ELECT 0.47MF 20% 50V
C232 1-123-875-11 ELECT 10MF 20% 50V
C233 1-163-005-11 CERAMIC CHIP 470PF 10% 50V
C234 1-163-005-11 CERAMIC CHIP 470PF 10% 50V
C235 1-163-005-11 CERAMIC CHIP 470PF 10% 50V

C236 1-163-005-11 CERAMIC CHIP 470PF 10% 50V
C237 1-124-902-00 ELECT 0.47MF 20% 50V
C238 1-163-125-00 CERAMIC CHIP 220PF 5% 50V
C239 1-126-103-11 ELECT 470MF 20% 16V
C240 1-163-018-00 CERAMIC CHIP 0.0056MF 10% 50V

C241 1-163-018-00 CERAMIC CHIP 0.0056MF 10% 50V
C242 1-163-033-00 CERAMIC CHIP 0.022MF 50V
C243 1-163-033-00 CERAMIC CHIP 0.022MF 50V
C244 1-163-033-00 CERAMIC CHIP 0.022MF 50V
C245 1-163-033-00 CERAMIC CHIP 0.022MF 50V

C1401 1-123-875-11 ELECT 10MF 20% 50V
C1402 1-126-103-11 ELECT 470MF 20% 16V
C1403 1-163-003-11 CERAMIC CHIP 330PF 10% 50V
C1404 1-137-035-11 FILM 0.47MF 10% 100V
C1405 1-136-017-00 CERAMIC CHIP 0.0047MF 50V

C1406 1-137-035-11 FILM 0.47MF 10% 100V
C1407 1-124-910-11 ELECT 47MF 20% 50V
C1408 1-124-122-11 ELECT 100MF 20% 50V
C1409 1-126-233-11 ELECT 22MF 20% 50V
C1410 1-123-875-11 ELECT 10MF 20% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			
C1411	1-123-875-11	ELECT	10MF	20%	50V	D1410	8-719-110-14	DIODE	RD9.1ES-B3
C1412	1-124-910-11	ELECT	47MF	20%	50V	D1415	8-719-110-03	DIODE	RD7.5ES-B2
C1413	1-124-910-11	ELECT	47MF	20%	50V	D1418	8-719-110-03	DIODE	RD7.5ES-B2
C1414	1-123-875-11	ELECT	10MF	20%	50V				
C1415	1-137-035-11	FILM	0.47MF	10%	100V	D1419	8-719-110-03	DIODE	RD7.5ES-B2
						D1420	8-719-110-03	DIODE	RD7.5ES-B2
C1416	1-137-035-11	FILM	0.47MF	10%	100V	D1421	8-719-110-03	DIODE	RD7.5ES-B2
C1417	1-124-120-11	ELECT	220MF	20%	16V	D1422	8-719-110-03	DIODE	RD7.5ES-B2
C1418	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	D1423	8-719-110-03	DIODE	RD7.5ES-B2
C1419	1-163-003-11	CERAMIC CHIP	330PF	10%	50V				
C1425	1-124-902-00	ELECT	0.47MF	20%	50V	D1424	8-719-110-03	DIODE	RD7.5ES-B2
						D1425	8-719-110-03	DIODE	RD7.5ES-B2
C1426	1-124-902-00	ELECT	0.47MF	20%	50V	D1426	8-719-110-03	DIODE	RD7.5ES-B2
C1427	1-136-017-00	CERAMIC CHIP	0.0047MF		50V	D1501	8-719-300-33	DIODE	RU-3AM
C1428	1-136-017-00	CERAMIC CHIP	0.0047MF		50V	D1502	8-719-911-19	DIODE	1SS119
C1429	1-136-017-00	CERAMIC CHIP	0.0047MF		50V				
C1430	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	D1503	8-719-911-19	DIODE	1SS119
						D1504	8-719-911-19	DIODE	1SS119
C1431	1-126-529-11	ELECT	0.47MF	20%	50V	D1505	8-719-911-19	DIODE	1SS119
C1432	1-124-902-00	ELECT	0.47MF	20%	50V	D1506	8-719-982-33	DIODE	MTZJ-36D
C1433	1-124-122-11	ELECT	100MF	20%	50V	D1507	8-719-911-19	DIODE	1SS119
C1436	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V				
C1437	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D1510	8-719-911-19	DIODE	1SS119
C1438	1-137-047-11	FILM	0.01MF	10%	400V				
C1439	1-137-047-11	FILM	0.01MF	10%	400V				
C1440	1-123-875-11	ELECT	10MF	20%	50V				
C1441	1-123-875-11	ELECT	10MF	20%	50V				
C1442	1-137-035-11	FILM	0.47MF	10%	100V				
C1443	1-137-035-11	FILM	0.47MF	10%	100V				
C1444	1-124-910-11	ELECT	47MF	20%	50V				
C1445	1-102-824-00	CERAMIC	470PF	5%	50V				
C1446	1-102-824-00	CERAMIC	470PF	5%	50V				
C1501	1-124-927-11	ELECT	4.7MF	20%	50V				
C1502	1-124-791-11	ELECT	1MF	20%	50V				
C1503	1-108-680-11	MYLAR	0.001MF	10%	100V				
C1504	1-124-910-11	ELECT	47MF	20%	50V				
C1505	1-137-094-11	FILM	0.047MF	10%	100V				
C1507	1-108-686-11	MYLAR	0.0033MF	10%	100V				
C1508	1-124-791-11	ELECT	1MF	20%	50V				
C1509	1-124-791-11	ELECT	1MF	20%	50V				
C1511	1-124-927-11	ELECT	4.7MF	20%	50V				
C1512	1-137-045-11	FILM	0.0068MF	10%	400V				
					(KV-E2521D ONLY)				
C1513	1-163-105-00	CERAMIC CHIP	33PF	5%	50V				
C1514	1-137-102-11	FILM	0.022MF	10%	250V				
					(KV-E2521D ONLY)				
C1515	1-102-117-00	CERAMIC	820PF	10%	50V				
					(KV-E2521D ONLY)				

J1

REF. NO. PART NO. DESCRIPTION

R226	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R227	1-216-033-00	METAL GLAZE	220	5%	1/10W
R228	1-216-033-00	METAL GLAZE	220	5%	1/10W
R229	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R230	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R231	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R232	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R233	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R234	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R240	1-216-033-00	METAL GLAZE	220	5%	1/10W
R241	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R242	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R243	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R244	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R245	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R246	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R247	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R248	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R249	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R250	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1401	1-216-023-00	METAL GLAZE	82	5%	1/10W
R1402	1-216-170-00	METAL GLAZE	68	5%	1/8W
R1403	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1404	1-216-178-00	METAL GLAZE	150	5%	1/8W
R1405	1-249-429-11	CARBON	10K	5%	1/4W
R1407	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1408	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1409	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1410	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1411	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1412	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1413	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1414	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1415	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1416	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1417	1-216-023-00	METAL GLAZE	82	5%	1/10W
R1418	1-247-738-11	CARBON	82	5%	1/2W F
R1422	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1423	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1424	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1425	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1426	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1427	1-216-001-00	METAL GLAZE	10	5%	1/10W
R1428	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1429	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1430	1-216-170-00	METAL GLAZE	68	5%	1/8W
R1431	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1432	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1433	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1434	1-249-393-11	CARBON	10	5%	1/4W F
R1437	1-249-429-11	CARBON	10K	5%	1/4W
R1440	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1441	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1442	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1443	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1444	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1445	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1446	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1447	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1448	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1452	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1453	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1454	1-216-180-00	METAL GLAZE	180	5%	1/8W
R1455	1-216-180-00	METAL GLAZE	180	5%	1/8W

REMARK

REF. NO. PART NO. DESCRIPTION

REMARK

R1457	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1459	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1460	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1461	1-216-190-00	METAL GLAZE	470	5%	1/8W
R1462	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1463	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1464	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1465	1-216-023-00	METAL GLAZE	82	5%	1/10W
R1466	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1467	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1468	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1469	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1470	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1471	1-216-023-00	METAL GLAZE	82	5%	1/10W
R1472	1-216-023-00	METAL GLAZE	82	5%	1/10W
R1473	1-216-023-00	METAL GLAZE	82	5%	1/10W
R1474	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1476	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1477	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1478	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1480	1-216-190-00	METAL GLAZE	470	5%	1/8W
R1482	1-216-178-00	METAL GLAZE	150	5%	1/8W
R1483	1-216-178-00	METAL GLAZE	150	5%	1/8W
R1484	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1485	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1486	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1487	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1488	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1489	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1501	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1502	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1503	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1504	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R1505	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1506	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1509	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R1510	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1511	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1512	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1513	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R1514	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1515	1-216-117-00	METAL GLAZE	680K	5%	1/10W (KV-E2521D ONLY)
R1516	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R1517	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1519	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R1520	1-216-113-00	METAL GLAZE	470K	5%	1/10W (KV-E2521D ONLY)
	1-216-111-00	METAL GLAZE	390K	5%	1/10W (KV-E2921D ONLY)
R1521	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W
R1550	1-216-349-00	METAL OXIDE	1	5%	1W F (KV-E2921D ONLY)
R1556	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
<VARIABLE RESISTOR>					
RV1501	1-238-023-11	RES, ADJ, CARBON	470K		
RV1502	1-238-016-11	RES, ADJ, CARBON	10K		
RV1503	1-238-017-11	RES, ADJ, CARBON	22K		
RV1504	1-238-012-11	RES, ADJ, CARBON	1K		
RV1505	1-238-023-11	RES, ADJ, CARBON	470K		
RV1506	1-238-017-11	RES, ADJ, CARBON	22K		

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

J1 IFG

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
RV1507	1-238-009-11	RES, ADJ, CARBON 220		IC1	8-759-003-90	IC TBA129	
RV1508	1-238-016-11	RES, ADJ, CARBON 10K		IC2	8-759-003-90	IC TBA129	
RV1509	1-238-023-11	RES, ADJ, CARBON 470K		IC3	8-759-030-48	IC TDA6600-2	
*****				IC4	8-759-513-48	IC TDA2595/V9	
A-1654-004-A	IFG BOARD, COMPLETE			<COIL>			
*****				L1	1-408-410-00	INDUCTOR	12UH
*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P			L2	1-408-410-00	INDUCTOR	12UH
<CAPACITOR>				L3	1-410-064-11	INDUCTOR	2.7MMH
C1	1-164-232-11	CERAMIC CHIP 0.01MF	50V	L4	1-408-421-00	INDUCTOR	100UH
C2	1-164-232-11	CERAMIC CHIP 0.01MF	50V	L5	1-408-421-00	INDUCTOR	100UH
C3	1-164-232-11	CERAMIC CHIP 0.01MF	50V	<TRANSISTOR>			
C4	1-164-232-11	CERAMIC CHIP 0.01MF	50V	Q2	8-729-901-00	TRANSISTOR DTC124EK	
C5	1-164-232-11	CERAMIC CHIP 0.01MF	50V	Q3	8-729-216-22	TRANSISTOR 2SA1162-G	
C6	1-164-232-11	CERAMIC CHIP 0.01MF	50V	Q4	8-729-901-00	TRANSISTOR DTC124EK	
C7	1-124-791-11	ELECT 1MF	20% 50V	<RESISTOR>			
C8	1-123-875-11	ELECT 10MF	20% 50V	JR8	1-216-296-00	METAL GLAZE 0	5% 1/8W
C9	1-130-471-00	MYLAR 0.001MF	5% 50V	JR10	1-216-296-00	METAL GLAZE 0	5% 1/8W
C10	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	R1	1-216-045-00	METAL GLAZE 680	5% 1/10W
C11	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	R2	1-216-043-00	METAL GLAZE 560	5% 1/10W
C12	1-136-298-00	FILM 0.0033MF	2% 100V	R3	1-216-043-00	METAL GLAZE 560	5% 1/10W
C13	1-124-477-11	ELECT 47MF	20% 16V	R5	1-216-045-00	METAL GLAZE 680	5% 1/10W
C14	1-124-477-11	ELECT 47MF	20% 16V	R6	1-216-043-00	METAL GLAZE 560	5% 1/10W
C15	1-124-477-11	ELECT 47MF	20% 16V	R7	1-216-043-00	METAL GLAZE 560	5% 1/10W
C16	1-124-477-11	ELECT 47MF	20% 16V	R9	1-216-073-00	METAL GLAZE 10K	5% 1/10W
C17	1-123-875-11	ELECT 10MF	20% 50V	R11	1-216-095-00	METAL GLAZE 82K	5% 1/10W
C18	1-137-047-11	FILM 0.01MF	10% 400V	R12	1-216-097-00	METAL GLAZE 100K	5% 1/10W
C19	1-137-047-11	FILM 0.01MF	10% 400V	R13	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
C20	1-126-233-11	ELECT 22MF	20% 50V	R15	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
C21	1-126-233-11	ELECT 22MF	20% 50V	R16	1-216-097-00	METAL GLAZE 100K	5% 1/10W
C22	1-137-098-11	FILM 0.1MF	10% 100V	R17	1-216-097-00	METAL GLAZE 100K	5% 1/10W
C23	1-137-031-11	FILM 0.22MF	10% 100V	R18	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
C24	1-124-034-51	ELECT 33MF	20% 16V	R19	1-216-097-00	METAL GLAZE 100K	5% 1/10W
C25	1-137-102-11	FILM 0.022MF	10% 250V	R20	1-216-075-00	METAL GLAZE 12K	5% 1/10W
C26	1-137-094-11	FILM 0.047MF	10% 100V	R22	1-216-099-00	METAL GLAZE 120K	5% 1/10W
C27	1-124-791-11	ELECT 1MF	20% 50V	R24	1-216-089-00	METAL GLAZE 47K	5% 1/10W
C28	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	R25	1-216-077-00	METAL GLAZE 15K	5% 1/10W
C29	1-124-791-11	ELECT 1MF	20% 50V	<VARIABLE RESISTOR>			
C30	1-124-791-11	ELECT 1MF	20% 50V	RV1	1-238-016-11	RES, ADJ, CARBON 10K	
C31	1-137-047-11	FILM 0.01MF	10% 400V	RV2	1-238-019-11	RES, ADJ, CARBON 47K	
C32	1-130-479-00	MYLAR 0.0047MF	5% 50V	*****			
C33	1-163-081-00	CERAMIC CHIP 0.22MF	25V	MISCELLANEOUS			
C34	1-137-031-11	FILM 0.22MF	10% 100V	*****			
C35	1-123-875-11	ELECT 10MF	20% 50V	Δ 1-460-091-11	COIL, DEGAUSS (KV-E2521D ONLY)		
C36	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	Δ 1-426-398-11	COIL, DEMAGNETIZATION (KV-E2921D ONLY)		
C37	1-124-477-11	ELECT 47MF	20% 16V	Δ 1-451-311-21	DEFLECTION YOKE (Y25FXA) (KV-E2521D ONLY)		
C38	1-124-477-11	ELECT 47MF	20% 16V	Δ 1-451-313-21	DEFLECTION YOKE (Y29FXA) (KV-E2921D ONLY)		
C39	1-163-197-00	CERAMIC CHIP 470PF	5% 50V	1-452-032-00	MAGNET, DISK; 10MM φ		
<FILTER>				1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ		
CDA1	1-404-751-11	DISCRIMINATOR, CERAMIC		Δ 1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308) (KV-E2921D ONLY)		
CDA2	1-404-750-11	DISCRIMINATOR, CERAMIC		Δ 1-590-501-11	CORD, POWER(WITH NOISE FILTER)		
SFT1	1-527-840-00	FILTER, CERAMIC		V901 Δ 8-733-224-05	PICTURE TUBE (A59JWC60X) (KV-E2521D ONLY)		
SFT2	1-527-839-00	FILTER, CERAMIC		Δ 8-733-824-05	PICTURE TUBE (A68JYK60X) (KV-E2921D ONLY)		
<DIODE>				*****			
D3	8-719-400-18	DIODE MA152WK					
<IC>							

ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
*A-1678-001-A	BOX ASSY, WOOFER	
*A-1678-010-A	BOX ASSY (RIGHT), SPEAKER	(KV-E2521D ONLY)
*A-1678-003-A	BOX ASSY (RIGHT), SPEAKER	(KV-E2921D ONLY)
*A-1678-012-A	BOX ASSY (LEFT), SPEAKER	(KV-E2521D ONLY)
*A-1678-005-A	BOX ASSY (LEFT), SPEAKER	(KV-E2921D ONLY)
*3-704-280-01	BAG (STANDARD), PROTECTION	(KV-E2521D ONLY)
*3-704-283-01	BAG (STANDARD), PROTECTION	(KV-E2921D ONLY)
4-200-591-11	MANUAL, INSTRUCTION	(GERMAN/ENGLISH/FRENCH/ DUTCH/ITALIAN/PORTUGUESE)
*4-201-015-02	INDIVIDUAL CARTON (KV-E2521D ONLY)	
*4-200-036-01	INDIVIDUAL CARTON (KV-E2921D ONLY)	
*4-201-012-02	CUSHION (UPPER) (ASSY) (KV-E2521D ONLY)	
*4-200-041-02	CUSHION (UPPER) (ASSY) (KV-E2921D ONLY)	
*4-201-013-01	CUSHION (LOWER) (ASSY) (KV-E2521D ONLY)	
*4-200-042-01	CUSHION (LOWER) (ASSY) (KV-E2921D ONLY)	
*4-380-340-01	BAG, PROTECTION (KV-E2521D ONLY)	
*4-384-027-01	BAG, PROTECTION (KV-E2921D ONLY)	

REMOTE COMMANDER

1-465-797-11	COMMANDER, REMOTE (RM-817)
4-031-670-11	COVER, POCKET (FOR RM-817)